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VOL. IX. \{ $\begin{gathered}\text { WILLAM WELD } \\ \text { Editor } \pm \text { Propreteor. }\}\end{gathered}$
LONDON, ONT.; AUGUST, 1874.

August on the Farm.

August has its own labor and care fo
he farmer, as well as pleasure. In vorable season the hay and the greater part of the grain crop are safely storee
before Lammas Day (as the first of thi mouth was called in Anglo-Saxon phrase ology), and the farmer can now pretty
well estimate what grain he will have for market, and provender for his cattle dur ng the season.
The oat erop still standing demand ur attention, and we must take care to cut it in proper condition. Some of ou owing oats to stand too long uncut e ails a great loss, independently of t danger of shedding. The grain loses its miller or feeder, and consequently wil not bring so high, a price. A barrel of
over-ripe oats will not produce so many over-ripe oats will not produce so many
pounds of meal, nor that of so good a poundis as if cat, boforo it is too rine. The
qutraw for fodder is also more valuable than straw for fodder is also more valuable than ill very ripe, when it thas yuieltied nearly rraiu will shrivel, and the yield witl' con sequently be less. Let the grain be well
formed neither formed, neither milky nor hard, but more
as dough, and properly cured, for it is a very proftithle crop. There, is 'a ready market, with good prices, for all the pro vince has to spare, and for man and hor-
it is au exeellent food saved, will, with the addition of turnips mangolds or kohl rabi, keep stock in goo them. in the sheaf till seeding time the whea or other grain intended for seed, if we intend to sow the grain raised on our own
farm. It will be fresher and better seed when so kept. The keeping over for seed grain threshed some months, and the crushing and injuring the kernel by
the machine in threshiug are among the causes of so many kernels perishing in the soil without germinating. Bear in mind, as you would have your farm pro seed wheat be clesin. To have it clean and pure will well repay any trouble it may cost you,
Look to the weeds. Let them not ripen Let not the weeds, whereverer formed, lie where they may ripen to give you more labor in eradicating another crop.
Weeds seem to throughaut the country, and this increas solely caused by carelessmess. Along the
fences-by the roadside-ths less frequented streets in our towns-every
only is this the case, but in our fields and
gardeus we are too apt on allow wedd to
grow and ripen their seeis. Let us wage grow and ripen their seeds. . Let tus wage
an incessant war witt wweds.
they ane he heaviest taxes we have to bear. The in heaps, to burn them. We lave rottei hem by putting them in a heap and add could be better for the purpose than urine, or not having it, any liquid manure. Stock require to be well looked after hiter pastures are pretty bare in August
and and drought of July, and the springs are getting low. The farmer ho has provided partial soiling to help ratulate himself on his wise now con It is well to have our stock keep up thei ondition at all seasons; it is easier tha to restorc it. If you have green food to the heat of the day, they will thrive bet ter and add no little to your manure heap. and if you would have them healthy and have them first-class, see to
have good water. Irinking from thilthy
pools or infectinus marshes is one cause of ad ber infectinus marshes is one cause e Look to your fruit trees, and guar gainst your insect enemies.
The International Agricultura Exhibition at Bremen.
We would gladly transfer to our col Exhibition, but space forbids, so we giv only abridged extracts from our value divisions to which the committee limite 1. $a$-Breeding animals; $b$-Horses Cattle; d-Sheep, e-Pigs; $f$-Goat fatted cattle. 3. Poultry and Singing
Birds. 4. Fishery and Culture of the Silk Worm. 6. Man Agricultural Productsand Botanical Manufacture. 8. Cultivation of Gardens,Fruit Trees and Vines. 9. Agricultural Ma chines and Implements. 10. Results
Scientific Studies in the above Depart ments.
Germany, with a population of 75 of The Exhilition was held in the Buswen acres. The grounds are planted wi tress, shrubs and thweriny hants, and
aill out in roads, trass and water. A laid out in roads, qrass and water,
siding has been laid from the railway,
horses were substantially erected, and in some respects the plans are good. The
entire covered width of the cattle sheds is from thirty-nine to forty feet, and there is a walk of nine feet down the centre.All the sheddings are well constructed Th
ne, exhibition or horses was a grand ne, and has rarely, we are told, been ex could be in any other country The class comprised English thorough-bred stallions and mares, half-bred horses for hunting, ding and soldiers phrposes-there bein and heavy carriage horses, and horses for gricultural and artillery work, hackney and ponies. The general character of the There was frame, boue, and style, and the ction of some of the horses was really rand to look at. They were generally dition.
There was a large entry of Holland and Oldenburgh cattle. There were classes or Hanoverian, Holstein and Hambur: Swiss cattle.
The classes for British and foreign-bre The classes for British and foreign-bre filled. Mr. E. Tubser (enburg, wh was a pupil some years ago of Mr. Overs erent ages, and thirteen cows and heifers nd of a character, style and quality tha bition in England. He deservedly re ceived the first prizes and gold medals six second prizes and silver medals, an Sheep.-The alasses tor Southdown were weli filled. Lard Walsingham wa warued two first prizes two gold medals with tso second prizes and two silve two gold medals for shearling ewes. There has been great improvement Merino sheep on the continent of Europ in increase of size and impravement of
shape, while the quality of the wool
There - was a good entry of pigs, an Messrs. Dorking, of Lincolnshire, an But we must pass over other depart seventh department - Amport, to look at the wements and Machines Agricultural Im The were a warded
and the first prize for the bret steam plo
Chinay for plowing waste larids io Messir
for agricultural machinery and implement
to .fessrs. James and Frederick Howar
alls, New York; Marshall, Son \& Co Falls, New York; Marshall, Son \& Co.,
of Gainsborough; Clayton and Shuttleworth, of Lincoln; Ransomes, Sims and Head, of Ipswich; and Messrs. D. M. Osne o Co., of Bremen. Silver medals Maldon Ironworks Company; Rennie \& o, Lincoln, Richmond and Chandler, hiord; Aultmann, Miller \& Co.. Akron, alder, Wantage ; Gooday, Stanstead, ssex; Samuelson \& Co., Banbury; Davy, Paxman \& Co., Colchester; Woods, Cock-
sedge \& Co., Stowmarket; James Smith s Sons, Peasenhill; C. Burrell, Thetford Willsher \& Co., London; Hornsby and Ins, Grantham $\underset{\text { E. R. }}{ }$ E F. Turner Ipswich; a
Brockport. At this great International Exhibition
England has fully maintained her high a a manufacturer of ant atricultural also hiues and implements.

## Union is Strength.

Farmers, we have now established you ADvocate; it is now on as safe a founda on as any publication in America. Th vecuation is large and wide spread
ver the Dominion, and rapidly increasing now returns more money than it costs portion of these funds we propose lock. The charter is granted; you hav required. Ha
jurn in England returned from a short soatisfied than ever that the we are more i judiciously managed, be a most will nd profitable one. Additions may be ranchesuit the requirements of othe branches.
What is
What is now required is to select the resent we can for its management; the hope to hear the names of pro tem. We nen from different parts of the Dominio Th and profit by the establishment he stock book on the 15th of Aurust and holding a meeting of stock holders in Toronto at the time of the Provinoial
Exhibition. We wish to be favored with the names of gentlemen wha may be willing to join in its management. The admade $k$, $u$ wn to stock holders in Toronto uff other places.
The shares are $\$ 20$ each; $\$ 5$ per share may be sent on application or bee paid at Toronto. No one is liable Exhibition in toronto. No one is liable to pay any-
thing beyond the amount of stock they
subscribe for

## Trifolium

While in France the mrathemarkable
crop that we noticed differing them ou crop that we noticed Tiffering thick masses of bloom of a bright scarlet color drew our
attention; on inquiry, we were informed of the name and use of this very valhable plant. The flowers are conical in sllape it is grown for early feed and for cut feed
throughout the season. The cultivation througs to be about the same as fo appears to be about the same as for
vetcles here; it surpasses the vetch or the clover; it is sown in the autumn and
cut or fed off in the fields the following spring and summer. our country, so we purchased a small quantity to ogive it a trial. The quantity of seed required per acre is about fifteen
pounds. We can, on application puonds. few caly, on application, to try a half acre. To our regular seed
testrcss or those gentlemen we have seed reper, or to those that have got up a club praper, or tot use nat habscriber this yea we will send a package as a present, on
theirgpaying the postage and the cost of theirspaying the postage 10 cents. We are informed that this. plant fund to stand the weather well in France.
In Kent and Sussex, where we spent most In Kent and Sussex, where we spent most
of our time while in England, we found of our time while in England, we foun
it growing in several places. We he that in the northern part of England and Scotland it is not much cultivated. W
deem it risht to give it a trial here ; if deem it right to give it a trial here; if it
will stand our winters as well as it does in Kent and in France, we shall have a plan that our dairymen and our best farmers will require ell on poor land.

The American Potato Bectle So well has this intrusive alien become to its habits and the mode of comparting it most effectually entirely superfluous. How
ever, so many means, all moost /ficictual, a
 a notic
able.
Though the bugs are not yet to be found
nwelcome visitors enterinc oivr windows und doors, and infesting our walks and
and
flower gardens, as last year, the in hosts thi year too are in every plot of potatoes inyear too are in every plot of potatoes in-
numerable, and when we think them entirely
annihilated, another host is met with before annihilated, another host is met with before
twenty-four hours are past, as if they had twenty four hours are past, as if they had
fallen from the clouds or risen from the earth. Three years, the wise men told us,
was the duration of their abode in one lo cality, but though the three years have ex
pired, their numbers are not diminished.
rempdies tried and recomiended. Paris Green.- This is the remedy first rc
commended, and notwihtstanding the adverse opinions of some, is an effectual remedy. A
gentleman here tells the writer that after making trial of it last season for the purpose, he discontinued it, finding it ' '1ute useless.
In like manner a correspondent of an agricultural paper writes that having tried Paris
(Green on two drills of potatoes, giving them a heavy dressing, he found only two bug,
destroyed ; "the rest appeared to relish thi Paris ©ireen and to thrive on it." But Praris
Green is a sure autidote; whether mixed, one pound to thirty of plaster, or mixed in
water and dredged or sprinkled.
Either method has its advantage. Mixed with
plaster a remedy is therely appliod for the
iniery done to the vincs. Nixel with wate it reaches more surely cev
enemy may be nestling.
The ouly objection to it the danger attending the incor the purtious hane is
ling of it. An instance of this ping of it. An instance of this we know. A
person applying it in the usual way was
poisoned bailly by the poison coming into poisoned batly by the poison cond.
contact with a scratch on lis haad. Aresenc--This is a favorite remedy with
Professor Burrill; a tallespoonful to a bueket
of water, sprinkled on the of water, sprinkled on the vines through a
tine hole. The leaff he says, appears to
retain the poison without any changea as it retan not seem to le assimilated by
doest, it in no way affects its growth. Vermatoxa.- In the anuual report of the
Commissioner of Agriculture, we find in the
article, "Insects Injurious to the Potato,"
mention of a mixture prepared at Strathroy which is claimed to be a very good remedy
for the beetle. It is claimed that it has the for the beetle. 1 it is claimed that it has the
advang of being already prepared, and
less dangerous than arsenic unmixed or Paris less dangerous than arsenic unmixed or Paris
Green. Both Paris Green and Vermatoxa.
we have used and found effectual remedies. We have seen recommended as a remedy
the ligquid in which mandrakes have been he liquid in whicle mandrakes have bee
boiled, and that in which garlic has been
boiled. We do not believe that any extract boiled. erse do not believe trat any extray
from herbs hower powerful it may
will be of any effect against the bugs. A will be of any efrect against the bugs. At
one time the writer winessed a party of
bugs enjoying a feast that would have been their last if vegetable poison had any power
over them. A large henbane plant had ben
broken in the middle, and on the broken er them. A argele, and on the broke
tem in the middle a company of bugs feasting on the ich but poisonons sap, not in
ured, but enjoying the feast.

Cheese and the Cheese Trade.
Written for the Farme
x. a. willard D, A. M.,
hirymen's., president of n board of trade.
At Little Falls, N. Y., on the 13th of
July, the price of cheese had fallen July, the price of cheese had fallen to
$11 \frac{1}{2}$ c. and $11 \frac{3}{4} c$ c. per pound for the best 112 c . and 11 sc c. per pound for the best
fancy grades. Persons in the trade, who
re well informed, are of the opanio the are well informed, are of the opinion that
farmers will drop down still further by frmers will drop down still further by
the first of August. Whatever affects the price of chease in New York must
affect it in Canada, since both countries export their surplus to the same market,
and the price for that surplus abroad and the price for that surplus abroad
governs the price on the whole American product, except in rare instances. The fact has b:come patent that so long as we
have any considerable surplus, Liverpool have any considerable surplus, Liverpool
and London make the prices for American cheese; for so long as dealers are sending
cheese abroad at a given price, they can not in reason demand of the home trade What money for thet would drop at the com-
mencement of the hot weather was not mencenent of the hare Waring came from
unexpected by us.
our English correspondents that jobbers our English correspondents that jobbers
in England were trying to talk the market down several weeks ago, and in this they have evidently lieen successful; for we can account for the decline on no other
good theory. With a drouth in England and a short crop of English cheese, with
a full demand for the American product and a rapid clearing of the goods son
after landing, there was no good reason that prices should yo below those of last
year, when we were making our excessive shipments.
It is not necessary to go into all the details concerning the causes which have
brought about a weak and demoralized state of the market; it is sufficient to say that the leading cheese mougers in Engsities of American dairymen. They know that the hot weather cheese must go for
ward, that there is scarcely a factory in the United States that can hold over its hot weather cheese with any probability
of its retaining its flavor, and that if the attempt were made, the loss on account
of defective flavor would very likely be greater than that sustained by accepting getting the cheese at these rates, This, it
seems to us, is the explanation of the pre sent
What, then, is the remedy? Are the American factories at the mercy of Eng
lish jobbers, who can at any time during hot weather make a price for our good
below their valuc, compelling us to accept it or du worse? And will not this conime during the years that from time to unless some means be devised to correct The English dairymen at this date and the first dropping of the market com-
ter prices; and they are able to carry
their product over the hot weather with their product over the hot weather with
out deterioration or loss of flavor, because they have ar orple store room, so concause they have ample store room, so con-
structed as to maintain a uniform temperature sufficiently low to secure it iu good order. Such must ultimately be the
course that will be pursued by the American factories, for there is no other way open to correct the existiny cvil a:d avoid osses in real values, which are forced up an us on account oi culp.
The question of over-production in Am-
crican cheese is not now urged as formerly, erican cheese is not now urged as formerly, since, with those best informed, it is ad There is a good, healthy demand for all the cheese made in the United States and in Canada at fair remunerative prices, but world in proper proportions. If goods world in proper proportions.
are forced forward at unreasonable times
and and in unreasonable quantities, they must
be sold at a loss of values. Just so soon ser shal be in condition to hold stocks safely at the factory, prices will advance. This may be fairly predicted from the result of last year's shipments, when our
exports were over one hundred millions of pounds. If our factories were in condi-
tion to hold our goods, so that only moderate shipments would go forward, we should at once get back to healtly prices.
And it concerns Canada as well as the United States that some well devised movement be made in the reconstruction
of factories, whereby stocks may be safely of factories, whereby stocks may te safely
held whenever the market stows weakheld whenever the market stows weal
ness and demoralization. We believe in sending goods forward as fast as ready, so long as the prices are fairly within values,
but we do not believe in forcing sales, unless compelled by absolute necersity. It is a law among good business men to pro-
vide against the future, to meet obliga tions promptly and not place themselve at the mercy of their creditors. Al
sound, healthy business is conducted on these principles, and they are applicable
to the busincss of llairying. If the fac tories are so weak as to make no pro ther, they must expect to see their goods
so below values and at such rates as strongly organized commercial interest strongly org
may dictate.
We hope these words may be of some they may arrest the attention of those who have important interests in factories be adopted for the better care and keeping of our hot weather goods. When
this shall be done, we shall expect that they will be better m
the present system.


The wotsc.

## how english grooms care for horses.

 A correspondent of the New York Com-nercial Alleertiser tells how some English Thooms at siratoga are
the care of horses:
Tosked one of these grooms, who had spent 20 years in the stables of royalty What he had to say about our Americau way
of taking care of $a$ horse. "Why sir,", said he, he, "you don't take
good care of your horses; you think you do, but you don't."
""Why?" I asked.
"، Bher "Becarse, when a horse comes in all wet
with perspiration, you let him stand in the
table and dry with all the dirt on stable and dry with all the dirt on. In
England we take the horse as he comes fromr drive and sprinkle blood-warm water all
over him, from his head to his feet. Then over him, from his head to his feet. Then
we scrape him down and blanket him, rubbing his legs and face dry. Thus in an hour
he is clean and dry and ready to take a good
feed whil with y, he is clean and dry, and ready to take a good
feed, while with your way he will stand and
swelter for hours, and finally dry, sticky swelter for hours, and finally dry, sticky
and dirty. Our hess never founder and
never and dirty. Our his ss never founder and
never take cold. We never use a curry
comb. You scratch your horses too hard. The only care necessary is to have the water not too cold; 'then bathe them quick, and
blanket them instantly, while you are rubbing their legs."
Barley bartey for hopas Barley has, since the failure of the oat
crop, gainel in reputation as a good and substantial food for the horse, and many
farmers are now growing it for this purpose. farmers are now growing it for this purpose.
It must be confessod that barley contains, in a high degree, the principles for forming fat
and tlesh. It largely abounds in albumen dluten, sugar, gum and phosphate of lime gluten, sugar, gum and phosphate of lime,
or in other words, barley contains sixty five per cent. of nutritive matter, while oats,
weighing forty pounds to the bushel contain only about twenty four pounds of nutritive only about twenty
material. Infericr barley in some parts of
this country is fecl to horses instead of oats, this country is fel to horses instead of oats,
and with the best effects. In this connecotion, it woule be well for horsemen to re-
member that two parts of harley are worth member that two parts of barley are wort
more than threc of good oats. In (ireat Britrin, it is often honitecl and foo ing a glossy coat of hair, and having an ex-
cellent effect in a'l respects.- Cor: Journal for the Farm.
A contemporarysays: "We rceolloet very
well that whin rairoads were tirst being
puilt in the interior of New England farm fuilt in the interior of New England, farm-
crs thought that horse racing would no longer be profitable, and many breeders of
our accuaintance acted on this belief, and
oither hey had formerly done. Everybody knows that these fears were not realizect. Horses
have been in greater clemand, and prices
have been much higher since the completion have been much higher since the completion
of railroads than before. The same appears to have been the case in Rnyland, as it is
tated that the London Gieneral Omnibus Co. has purchased 22,026 horses in the last 12
years. From 1861 to 1870 the average price years. From 1861 to 1870 the average price
was about $\$ 120$ each. In 1871 the average
rice was $\$ 140$, and in 1872 nearly $\$ 165$.rice was $\$ 140$, and in 1572 nearly $\$ 160 .-$
Until is 180 the necded supplies were easily
For obtained in England and scotland. For 18
months past nearly all the horses bought
have been purchased in France.
DISEASE in clover.
disease is lover. It sickens where it was formerly yo-
bust, or dies off in being cut at the crown, lust, or thes of in weing cins healthy. This
while the top root renains her
latter disease has been developed at the (irignon Agricultural College. The clover
fades, blackens, not in patches so much as by numerous isolated plants, and curiously,
most remarkally on the soil where wheat and potatos had previously been culti-
vated. It is at the ncek of the plant a littated. ave the surface of the soil, that the
malady appears, resembling in the mark as malady appears, resembling in the mark
if it had been gnawed with a wire-worm,
 sition for a day or a night, it becomes covered when living, and which is believed to be
identical with then found on the leaves of $a$ identical with that foum.
diseased potato plant.
stand pe emg em
variety consis
white whites appea
easily raised
atten often layin
hreed have
the year. quire a war
dian winte
The next theses, , nike
lific, but no ing genera horns, ren
owing to $t$ and then they call a
Dorking-
the forme the former
though no
rieties $m$ rietiees m
sunerior to
and hardih small bree
lurgs an
furs fangey fow
fially non wing to
reseut st
The D eneral ers. large owl raise They do
The As America,
dapted supplied wi
so the toes, no danger
frozen
This lar


August, 1874.
THE EARMER'S ADVOCATE






 coming or rani gally united to that of the fe
male, so that the
anted for life.
Thhe egss are very minute and oval. The
embry develops while the engs are still io the



 presive
patient.
putrie
My friend, Dr. N. H. Paaren, of Chicazo,
recouments as the only remely which he
reud found serviceable, carbobic remid, both as a pre-
ventive and as a pretty sure remedy. $H$ He dis. solves one grian of of pure ory talline carbolic
acid in ten drops of alwohol, and adds half
and

 slime to the feathers; those not removed in this
manner will die from the contact with the mix. ture. Grat skill and dexte ity ir required,
and also some litte knowedge fo the ana
 Thated bird willt be billed instead of cured.
The bird is is next put in a clean conv, with
and
 arbolic acid (half an ounce of the erystallin)
acid well Imexed with one quart of water.)


 added to the drinking water. The myuth and
beak of the bird should be washed with some

 be cured withint thrye days.
Mr. J. H. Harknes, of St. Louis, who has
had large experience, has had good muceses by using sulphu ons acid instead of carrolic acid
diutuing it with about five parts of milk, and
 , reat care thould be taken to destroy the para tis, anter removal, by burmint them, else the
mature grss will ewcape destruction, and the Young parasites wi 1 ultimetelf find
isto the air passage of of orer birds.
to insure the hatching of eggs.


 off arye brou
warnht and
to the ebss :
I put atont two or three inchese of fine mois
earth into the box $I$ want to put the hen in













 ellent for colda,-Gardener's Magazine. It is the worst posible policy to kill all the
best and handsomest fowls, and
save only the

 using
grour
year.
 noultry neene the farms the country through-
phis
 best for breedidig.
with thing is ofst


the dry kakth process in the poultry
The dry earth proess can be applied in a
way peculiarly valuable to the farmer and way peculiarly valuabie to the farmer and
ardener. In this country, poultry are kept
 to a run. And how few of us have an idoa
of the value or the quantity of manure that
ont


 last. It was made in this way:- Five loads
of diy,
olod black soil
were
dumped into
 for various, purposes about the house 1 to
very naturully camo into use in the fowl. house, to keep down the ammonia that can
be smelled at some distance during wet weather.
Nex
Next it was found that it was easier to
spreal a f few shovevs of earth over the floor a morning then scrape up a place as we
had been doing all these years. The idea that we were making a very rich compoost -something very like guano followedsome.
ime after the earth spreading commenced Me at ter the earth spreading oommonecd.
 ne change is something to be eurprised at,
nd it pleases everybooty concerned with the poultry. Fully one-half of the dry-earth assorbed everything it came in oontact with. he mixture has no smell whatever, and after
 an any julge. to manure an acre of wheat,
arley, oor oats, -Morymn, in Queenslander

## Saccipes.

The Journal of of Chemiatry publighes a reipe
or the destruction of insectu, which, if it bo




 it tetevery, joint bund, whilie nearly boiling









## Three Days of Happiness.

$\{$ Boreham, Sussex, England
On Saturday last, we were in the midst of the bustle, noise and throng of the city of London, near one of the finest railway
stations in the world, about to depart for the country. We casually turned ou head as a lady stepped out of one of the busiuess estabishments the next moment eyes fell on the lady; the next momen and a sweet embrace ensued. This was our only sister. We had not seen each other for 20 years. Neither of us expect other at the first glance. We arranged to accompany her to her husband's, took our seat by the side of herself and two neices in a train bound for Battle, in Sus-
sex. The country through which we sex. any other through which we had traveiled. On arrival of the train, a car riage awaited us, into which we wer
invited, and after a drive through the prettiest part of England, we arrived a Boreham, a small but neat, clean an well-kept village. Our time passed in ungpeakable bliss. Nothing could possibly surpass ou
feelings of pleasure and de light. We write this seated in an arbour in the garden in front of which is a wellkept croquet-lawn. Ad-
joining is a meadow of tiewly cut bav, emitting its ragrance. The scene be yond is a succession of rolling country, beautiful val vated fields, dutted here and there with farm house. and buildings. The wheat fields are waving now and
again like the motion of the sea, as now and then a wind sweeps over them.
Lu the fields may be seep lour horses,
tore the othe ammer fallow. The cattle are grazing in some of the
tields; in others they fields; in others they may
ipe seen lying below the wide spreading branches of some of England's oak trees which are so peculiarly
handsome, with very large handsome, with very large
spreading tops and short trunks. The lark is sending forth its melodies, soar-
ing in the air above; numer-
ous birds are chirping and singing in the
iruit trees and shrubbery close by, even now and again flying into the bower in
which wethrite U Un looking through the arched foliage of the lower, we see a beautiful and well-kept standard roses on trees about four fees high flank the walk with a profusion of flowers of such large size, rich and varied colors, the perfume of which is now and again wafted by us. The scenely beyond
is another succession of beautiful farms. In the distance the barques and steamstips are seen passing to and fro along the sea coast. At a distance of half a mile apart are seen the cold, stern towers
erected for England's defence. But what is still more enchanting is the fond, entdeariug conversation of our only sister,for
whom we alwayy had the greatest love Whon we always had the greatest love,
respect and attachment, being near the tame age, and not having seen her for 20 years, and the present being the anni-
versary of the death of our dear mother. versary of the death of our dear mother.
We take walks or rides with her, or We take walks or rides with her, or
her and husband, or neices, sometimes all together. As we pass the hedges, we must stop to pull Canterberry bell, the
honeysuckle, the Wild roses or ferns, and aumerous other wild flowers and plants
that decorate these beautiful hedges, and
are such reminders of our young days. In are such reminders of our young days. In
some fields we saw partridges, pheasants, hares and rabbits, this being one of the finest shooting districts in England, where the game is protected. We shalthev so green; the flowers here last, whereas with us in Canada, they blossom and die a short time. The weatber is quite needed, but a good, thick undercoat is not In this
In this vicinity some of England's remains of several castles fought. The trict. We have visited four of these old castles, the dates of construction of which are rather uncertain. One house we vito be on the spot where William the Conqueror planted his first flag-staff in England. The house is now over 600 years id. The two lower stories are handmodern times, but the upper part is not used. It is one of the most remarkably onstructed ancient dwellings we have asen, much of the timber is apparently been much worn and worm-eaten ; but there remains pieces of wood on the out-

## Fall Wheat.

When in England, we examined some of the growing crops. One of the finest oeces of wheat we saw there was a piece
Australian wheat. The heads were ong, the straw was stiff and stood well. The wheat was bald, the grain not being
sufficiently advanced to tell what it would sufficiently advanced to tell what it would
be, althhough from its appearance we should judge the cron would yield sixty bushels ner acre. This was growing on a farm in Kent. We also saw on this farm
winter oats. They are sown in the auwinter oats. They are sown in the au-
tumm, and are not affected by the frost. We hope to introduce both of these varieties to you for trial. Of course, we shall only get a small quantity. The wheat, which is the inost important, we shall not In York Township, there has been an, other variety of wheat introduced, which appears to be doing very well. A A small quantity was brought from the States last
autumn. Some was sown in Oct was ripe the 25 th of July. This is also a wald wh
white.

A company has been formed in Montreal
A company has been formed in Montreal
or exporting fresh meat from Canada to
England, capital two million.


Grden of the tuluepies
plainly seen various Scripture texts. This castles date back between one and two thousand years. In some parts the walls of the castles are 25 ft . thick. The mortar and stone appear to be almost imper-
vious against time, so tightly are they vious against time, so tightly are they
bound together. The ivy claims the walls as its inheritance, and beautifies their rugged tops and sides. Our space
will not allow further descriptions or thoughts about these old bulwarks at the houghts about these old bulwarks at the
present time. No description or painting present time. No description or painting

Garden of the Tuilleries.
We present above one of the berutitul places we visited while in Paris. In a future number we will give some m
Parisian sketches, with descriptions.
primula japonica.
D. T. Fish, in the Gardener's Chronicle cals this exceedingly valuable plant the
King of the Primroses. It has proved.itself hardy in England, having stool the past
winter in Suffoll County and also in Scot winter in suffolk County, and also in Seot
and. It is grown readily from seet, and does not spront. It is hecoming a great fa-
verite, and deserves to be in general culture verite, and deserves to
in any tlower garden.

Ploughing Match
An international plowing match is on the tapis. The Toronto and Washington boys are making the preparations. We
hear a car or more will be sent from Canada to convey the plow horses and men
to and from the place of trial. We hop these international exhibitions may in crease. We may learn something from
the Americans. We do not fear but Canada can hold her own in regard to plowing. Such meetings tend to a waken a friendly feeling between both countries.
The Durham stock still appears to be advancing. We thought that America
had carried off the palm as regards th highest prices; but England has eclipsed them, eight thousand dollars having been
paid there for a Durham calf. The paid there for a Durham calf. The thousand dollars for a calf. We would
all like to receive such prices, but few all like to receive such prices, but few only can afford to attempt to reach the
highest priced animals, many will fail in the attempt. $\qquad$
A plague of grasshoppers has visited
Southwestern Minnesota soid to be literally covered with them, and
the destruction said dostruction of all vegetation in that sec-
thion appears inevitable.
the Grekn fly
If slugs and snails are the terror of gar deners in reference to their culinary crops
and other productions near the surface of the groand, the numerous tribeso of aphis are equaly obnoxious to the well-being of his
trees and shrubs. Theyalso thrive with pro
voking fecundity in fre treesing fecundity. in frames and green-houses
The present season is distinguished by the The present, season is distinguished by the
ravages of the minute creatures, who do in. jury in various ways. They do not eat up
the plant on which they dwell , the plant on which they dwell, but they con
stitute a sad incubus on its power of life stitute a sad incubus on its power of life,
both by their own pressure and by the both by their own pressure and by the
gummy excrement they so plehtifully dis-
charge. Gaidens are so charge. Gardens are so generally infested
by these insects, and the damage they do is by these insects, and the damage they do is
so well known, that any contribution to the modes of counteracting their influence must be acceptable.
It is well
Hen properly applied, effectually clears the plants in the frame of the greenhouse from the aphis, but the same agent when used in
the open air is almost useless, for although a puff of smoke will dislodge the enemy it will not kill it-it is only intoxicated for a time
and will speedily return to its attacks.
Having myself a collection of roses scat-
tered rather plentifully tered rather plentifully over an acre of
ground, and all much disfigured with green ground, and al much disfigured with green
Hy, I therefore commenced operations with gas water. After having then diluted it with six times its bulk of
water I plentifully syringed water cplentifully syringed
some climbing roses trained
against the wall, but to my some climbing roses trained
against the wall, but to my
vexation the insects were vexation the insects were
unmoved either by the unmoved either by the
smell or the taste of the
dose. What followed I redose. What followed I re-
late as a warning. If the
aphis was unaffected by the phis was unaffected by the
gas water, other things
ere not. Despairing of were not.
cleaning my trees by any cleaning my trees by any
solution or decoction, I resolution or decoction,
solled to have recourse to
the labor of the hands, and the labor of the hands, and recklessly to crush the bod-
lies of those I could not poi-
son: I went over the bushes les of those I could not poi-
son. I went over the bushes
and drew my fingers up the shoots infested, thus slaying
thousands in a minute. In解 all that I found on the rose
buds. The operation is very disagreeable, but it is more
effectual than any other I effectual than any other I
know. As the juices of the
insects thus destroyed form a sort of gum on the branches, they must be well sy-
ringed with water as you proceed. By this mode I
have brought the enemy
under although he is far ander, although he is far
from being quite destroyed. As the aphides begin to disturbed, I think the shoot which is covered
with them should be held over a basin of water, and then gently brushad so that the ssects may fall into the basin. These modes of procedure may appear very tiresome, but
it is to be understood that a well-regulated garden is only made so by tiresome pro-
$\qquad$
grass walks.
The Country Gentlemana advises grass garden walks. A correspondent spaded up all his waks, alded good soil enough to raise
them to a level with the adjoining beds,
rake raked and rolled them till they were firm
and even, and then sowed them with mixed and even, and then sowed them with mixed
landgrass seed, scratching in with a rake.
" In three weeks I had the pleasure of walk. ing on green velvet instead of gritty gravel, nd with the help of the lawn mower have
no further trouble with my paths. Always green and pleasant to the foot and eye, never. wet, being above the garden level, they are
'joy forever' and the perfection of garden a 'joy for
walks."
grasshoppers in towa.
We learn from the Council Bluffs Globe, that the grasshoppers by the million are destroying thee growing crops. In some sec-
tions they are sweeping everything before them. Unless they soon develop their wings and are carried off
scourge will become general.

What Will You Do With Your Monty
This is a very pleasant question to have to ask. We are very happy to know that of late years farmers generally have been who a few years since had to mortgaye their farms to raise money, are now prepared themselves to lend money on the same terms; but it is not every farmer
who has the money who underistands how to lend it carefully and advantageously. It is therefore well that he should know of some institution which will do this
work for him-some kind of a company which makes a business of lunding money on safe securities, and which is governed by good and reliable business men. For this reason we think we do our
readers no injury, but much benefit by commending an institution with which we ourselves have had many money transacti.ns. We refer to the Agricultural
Investment
and Savings
The standing of the Directors of this nstitution is excellent, and the mode of and sale. Within the few years which it has been in existence, its record is clear and straightforward, and profitable to the
Money ma
stock, which stands high and pays good dividends, or deposited in its Savings Bank, which pays 5 to 6 per cent. Their cording to present appearauces, will rule much liigher; and as the money is all lent on first mortgages, and that, too, at low
valuations, it is as safe, if not safer, than any other banking iustitution in the $\mathrm{D}_{0}$ ninion
By placing your money in this manner, of taking mortyages, looking after debtore, re-investing your money, \&c. All you
have to do is to receive your dividend every six mouths, and the officers of the
$\xrightarrow[\text { J.T. Sarlton. - In reply to your en- }]{\text { Siries in resard to Walmsleys Potato }}$ quiries in regard to Walmsleys Potato
Digger, we lave used it on our farm for two years, ann can safely recommend it at work. It will pay for itself in one season if you have five acres to dig. Mr.
R. Dennis, of this city, manufactures them.

## from the handy horse book.

"A saddle should be made to fit the horse
for which it is intend, and requires as much variation in shape, especially in the stuffiig,
as there is varicty iu the shape of horses backs. An animal may be fairly shaped in horse will always go out on this one's withers. The saddle having been made to fit your
horse, let it be placed gently upon him, and
shiftel till its proper birtl be found When in its right place, the action of the upper part of the shoulder-blade should be quite free from any continement or what saddlers
call the 'gullet' of the saddle under the pom-
mel when the animal is in motion. It stands to reason that any interference with the ac tion of the shoulder-blade must after a long
time, indirectly if not directly, cause a horse to falter in his movements.
always done upon the near or lett hand side the girth should be tirst drawn tightly tow-
wards you under the belly of the horse, so wards you under the belly of the horse, so as
to bring the saddle rather to the off side on to bring the saddle rather to the off side on
the back of the beast. This is seldom done by grooms ; and though a gentleman is not
supposed to girth his horse, information on supposed to girth his horse, information on
this as well as other points may happen to
be of essential survice to him be of essentias lathricece to him mim for the con con
sequence of the attendant's asual method is, sequence of the attendant's asual methot is,
that when the girths are tightened up, th
saddle instead of being in the centre horse's back, is inclined to the near or left hand side, to which it is still farther drawn monted he fancies that one stirrup is longer than the other-the near side stirrup invari
ably the longest. To remedy this he forces down his foot in the right stirrup,
brings the saddle of the horses back.
 liken hn the proesso of githing y piace the




"With ladies' saddles most particnla
attention should be paid to the girthing."
eatroms of dinghary.

























 The officers elected were-W Worthy Ma. A.ter
John Litlet, Worthy 1 turer, Freed. Ander
son; Worthy Steward. Ge. Jarvis; Worthy Ceretary, W. L. Brown; W Orthy Treasurer
Benjamin Payne; Ceres, Mrs. Dyas, Pomona
Mrs. Jarvis; Flo a, Mrs. Brown.
C.
 Wruce, J. W. Anderson (East Williams),
Well, James Little, Saml. Hunt and Hectu
Mc ell.
 ity Grange Rooms.
Do ourt brother partron. Lawzen

the norwood raspberry
A new hybrid variety, which is claimed
to be better than any of the black caps in quality, and also perfectly hardy.

## the clark raspberry.

This variety is pronounced a failure by
the New England $F_{\text {armer. It }}$ It does not stand the winter, and its small quantity of
fruit renders it worthless

## the mangosteen.

the most del the Mangosteen, which prodaces it is not known whether it will bear fruit or
is phes males.
Is the name of a new and very beautiful
hrub, that resembles the Pyrus Japonica It has orange flowers, and these flowers
bloom out late in the season. 'This shrub hardy in England, and considered a valualle acquisition, especially as it bears oblong,
yellow; ribbed fruit of good flavor. So say a well known
dener's Chronicle

## watering plants.

Plants set against walls and piazzas fre geason, when even ground near by them quite wet. Draw away the soil around each
plant so as to form a basin; fill in with bucket full of water, allowing it to soak gra
dually away, and when the surface has dried a little, Araw in in loosely the soine soil ove
it, and it will do without wite for it, and it will do without water for som
weeks. This applies to all plants wanting weeks. This applies to all plants wanting
water through the season. If the water i merely poured on the surfaee, it is malle
more compat by the weight of water, and
the horder the soil dries; and the result is, the more water you
give the more is wanted. - Gicrillener
$\square$
The leaders of squash, melon and cucum-
ber vines, ete., should be pinched when ther vines, etc., should be pinched when
they have acquired a length of from six to twelve inches. Pinch only the extreme
tips. They will immediately yrow out la.
terals. Amateur cultivators sometimes pinch the laterals when these have yrown
say two feet. Others, again, who desire extra fine fruit, pinch the laterals on which
the fruit is borne , eaving a bud and leaf besystem in extenso. Still another plan is to
allow each lateral to bear two or three fruits, stopping all beyond this. ly this system
the vines will bear stimulating strongly with manure, liupid in best since ty this plan the
stimulent cannot expent itself in the undue
expansions of vine

It is one of the essentials of a permanent rosperous hedge, that it must be at leas must be trimmed with a flat or gently curved surface to a point at the top. The light then
has a chance to play directly on every part has a chance to play directly on every part
of the leaf surface, without which it is im . possible to have a hedge long in order.
that part which receives the greater share
sulight, will get stror ger, and that which sunlight, will get strorger, and that which
gets the least gradually grows weaker, till
a thin, poor base is the final result. This is a thin, poor base is the final result. This is ne great object in pruning to remedy. An the strong upward tendency which, every one knows, is the wealkness of hedge grow-
ing. Nothing weakens a plant more than have its leaves taken off while young mully mature. If, therefore, the shoots to-
wards the top of the hedge are taken of about the first week in Jume, while they are yet soft, that part of the hed ge will be weak
ened, and the base, which for some months we leave cut, wasl be correspondingly bene
fitted thereby.-Garderer's Monthly.
set cabbages.
Not long since, I read a recommendation in
the a ricultural papers to raise cabbayes as a fodder crop. It was indicated that thirty
five tons of fodder could be noised from cre. The Early Winningstadt was recomeighing stumps, leaves and heads, would ot be difflcult to raise. I would recom nend, howover, a better and sweeter kind;
oot merely as fodder, but for fattening beftivo eeding a fatting cow on the sweet heads of reen Globe Savoy and other cabbages. Th the animal, the very juicy sweetness of the neat, and the cheapness of the process, was wost gratifying. It think twenty tons of ifficult. When my cow, spoken of, was be ore the butcher, he said it was the fattesi
beef he had seen that year, and when told at it was the result of calbbagg feed, with
ay, only ooe bag of meal being given just c. the canker worm.

Ithas been discovered that the cankerworm at the Northwest for the last few year estroying the foliage of apple trees, and
akking the orchards look as though fire hal nd that, too, with very little labor The female canker worm rises out of the round in the spring, as soon as the frost is he is wingless) and deposits her eggee ander he is wingless) and deposits her eggs under
ld bark or in rough ppaces which hath in
May or the fore part of June into small May or the fore part of June into small
lophole caterpillars, or so called measuring orms, which soon spread over the trees, detroying the foliage.
Many plans have he worm from crawling tried to prevent with some success. But to "wipe them ne of them left to tell the tale, is by the ase of Paris green in water applied with a to a patent pailful of water.
When the worms are all s car be julged, give the trees a good wet-
hing down, and if afterw hat they were not all killed put is discovered but nsually one wetting will answer.
We know orchards that in 1872 were cred with this worm, the foliage and fruit as above, last year, with perfect success-
he worms killed, and the orchards producThis liquid will not on
This liquid will not only destroy the can-
ker worm but the myriads of insects that are toosmall to be seen by the nakedeye, that One party says that after using it last trees.
Oear
in his orchard, the foliage made such uriant growth and so dark a green that $t$ was atmost black. gan be used just as
safely in the llower garden, destroying ths
insects that infest the shrubbery, as in the
The canker worm has already made its applthefore must be looked after at once.
and ald above a a very simint remedy and
very asily applied.
he above is a
cry casily applied.

## 118

## Garden (1)relard and forest.

## $\overline{\text { the Apple worm. }}$


 fruit caused lyy its insisious working are
enormons, athounting during some years,
and in certain sectionsof of the country, to

 this section of the country from Europe
about the begining of the tresent centur,
and havin


 The parent moth is prettily marked with
bronze, brown, and tren, and
tioed
 orchadist as the source of his wind ialis anid
wormy fruit. I have proved incontestally that which was very generally sumised by
practical men, but doubtec by many authors practical men, but dorobted yy manyy authoris,
viz: the touble brooded nature of this sint
 their appearance with the
apple blossom, and llace their egys almost
and invariably at the calyx-end of the young
fruit. The greater part of the worns which hatch from these eggs leave the fruit duruing
the month of June in the latitude of st LLouis. These spring up and the conrse of two or
three weeks produce moths which, in their turn, lay eggs, but not so invariably in the
caly end. 1 The worms (second brood) frou their egss leave the fruit, some of them as
tarly as the first of Scltember, others early as the frrst of in either case they spin
late anc Christas
their cocoons as soon as they have letit the apples, but do not assume the pupa stite
until towards spring-the moths trom the
then late matured worms appearing almost as
early as those from the early maturrel ones. When young the worker is whitish, with
black head and a black shiell on top of first joint. When full grown, it acculureses at tesh
colored or pinksish tint, aund the heal and guished at any stage of its growth from all other worms that bore into apples,, y
havins
have the body, and two at the anal extremity. the fruit and seeks a a convenient shelter under which to spin its cooonn. The lattoe
is oval, white within, but dissuised outwardly with particles of the substance to which Iside of the cocoon the insect changest to a yellowish l brown chrysalis, in which state it remains from twelve to
eighteen days, at the end of which time the moth issues.
Our knowledge of the halits of this insect in the larva or chrysalis state. It is olvious that when the eggs are once laid, nothing
can save the fruit, and it is equally certain as careful and repeated experiments have proved- that the motat extent by lights or quid sweets whiche halit of the worm of ter that it finds has, however, suggested a method of trapping, , may practicaly consists of encircling the trunk of the tree with some handage which shall o the kind, each one will, of course, b, y obtain. Of several different have used, the follo wing may be enumerrated
in what I consider the order of their merit. ping paper, $18 \times 30$, can be bought for 60 cents a bundle. Each bundle contanss 240 sheets, itself will give eight layers, between two ength to encircle most trees. It is easily drawn round the tree and fastened with a tack, and so, cheap that when the cone containing them may be detachech, piled in a heap, an burned, an eight bandages are nsed to eachl
places. If
tree during the season the cost will be just

THEF FARMER'S ADVOCATE
well afford to treble the number of sheets
and keep three on eacll thee, cither together
or in different places or in different places
2. Ruys.-These effect as paper, but are more costly and lifficult to get the requisite length. Where they can be had cheaply, they may be de-
tached from the tree, scalded with their con-
tents, or passed through the clothes wringer and used again. 3. The Wive-trap which has been figured
and described in the T'ribuner, and which consists of pieces of shingle screwed to the tree, is perhaps the next convenient, but
both the cost and time to destroy the worms
are are greater
with traps
so efficting so efficting on the side of a tree enn nes sacks, four inthl-chest, consisting of strips of ond lined on on side with pieces of lath tacked on trans.
versely and at such a distance from eac
vther versely and at such a distance from each
other that when brought round the tree, they
form an almost complete wooded ring, is the form an almost complete wooded ring, is the
very best of alltraps, so far as efficiency goes hut it is placed fourth on the list, becaus,
of the ereater cost and trouble of makiug,
and of destreying the worms when col and of destreying the worms when capture

## There are few flowers so easily raised, and withal so cheap, and that make a more bril

 liant show in the garict than ylydioluses. They may he bonght for from three to fivedollars , er hundred, , mixed sorts, if one is
contented to grow the old and hetter contented to grow the old and better-know
sorts-and these are really as finc as any of
the newer ones, and they will give as great the newer ones, and they will give as great a
diversity of color as can be wished, lightit and dark reh, crimson, scarlet, purple, and so
through the lighter shades of red to pure white. They are very effective planted
grouns of five or six together, or in be
dight or nine inches apart each way eight or nine inches apart each way.
T.ey should be planted from early season until the middlle of June for succession,
althouglt the intermediate plantings are apt to have their hlooms injured ly the sun un-
less shaded at the time of llossoming. The airly and late plantings are, however, all
that conld be desired, and the ease with hatit cothld be desired, and the ease with
which they are kepptover winter, in dry sand in a cellar exempt from damp and frost,
should commend them to every lover of lowers. They thrive and hly
moist (not wet), rich, sandy loam, but do well in any good garden soil. If very sandy,
cow-manure is the proper application to give cow-manure is the propere thp bloom. I
consistency and enhance the thoroughly watered about the time of bloon ing with water in which a hitte cmmonia ness of the bloom.
Dahe
Dian should find a place in every garden. The
require a deep, rich, warm, soil, and, if plant require a deep, for, in June, will give abun-
ell the first week
diance of bloom during the latterpart of summer and through the autumn until frost come.
be set to each plant to which it should be tied as it increases in growth, an
is dry, liberal waterings should be
the ground thorougly mulched be
These, once obtained, may be kept indefi is required is to lift them after they are is required is to dry them and pack in dry
killed by frost, dre
sand and keep where they will neither sand and keep where they They will con
frozen nor become damp.
tinue timere
yatr
 and there in and anting, the orchard. No
I have no desire to place myself in antagonism with or against any adrocate of the bel
system, but 1 do know that the influence system, breen extends to just ahmot double
an evergre
the distance of its height; and that when placed atong there is an anneliorating influ
ence obtained in tenperature, both summer and winter: and I also know that a thick
belt of evergreens, while it has a sheltering influence for a certain distance, has also an
intluence tending to draw moisture anit miance disease of tree and foliage within
mianatic radias, and especially when the
a reat
zonthern line of heat cones nuost strongly southern line of heat comes most strongly
iupon it. I could make cuotations to prove
my position last named, but 1 have no desire
 ards indiscriminately, hecause, when on
a fruit-grower has done it, and waited te years to see its results, 1 know he will than me for the suggestion of a goor and reli
protection in the matter of orcharding. protection in the matter of orcharding.
F. R. EL...Iotr, in Pranivi Former.

The seeds of orchard grass weigh about
welve pounds to the bushel, and used in welve pounds to the bushel, and used in
connection with other grasses in seeding,
from three to five pounds are used. It comes to maturity early, being in hlossom with red clover, and if sown with clover in
place of timothy, the result would be that place of timothy, the result would be that same time, making a very superior hay.
firown for hay it needs to be cut from the
Doth 10th to the 15th of June. While there can and very nutritious hay (rof. Way, the dis-
inguished agricultural chemist of England, having fount ly an analysis of twentyhanree varicties of grasses, that orchard grass
exceeded all others except two in albumiexceeded all others except two nit it in
nous or thesh forming prinipiples it a
pasture grass that it is best known, and as such it has characteristics which give it very
high rank for its proppose. Itsuceeds will
It high rank for its purpose. It succeets, wil
in the shade, is a very rapfid grower, and
bears close cropping. All who have had ex perience with it unite in saying that it pro-
duces more pasturage thani any other grass. Inces more pasturage than any other grass
It starts very early in the spring, therefore affording a reasonable grazing spot for stock
in case the farmer is short of hay, and nearly approaching meadow Foxtail in this,
respect. Dr. . Ware Sylvester, of Lyons,
友 N. Y., states in a communication to the
Farmers' Club of the American institute,
that he has cut tufts of it which were grow that he has cut tufts of it which were grow
ing in warm situations that would average
nine inches in length while the remnents o nine inches in length, while the remnents of
snow drifts were still in sight; and tufts snow drifts were still in sight; and tuits
from the same location cut early as June, and before the seed had commenced to form,
measured four feet nine inches in length, measured four feet nine inches in length,
timothy at that tine being not half frown.
Feed oft by cattle it springs up immediately, timothy at that time being not inal grow
Fed off by cattle it springs up immediately,
those who have had most experience with those who have had most experience with
say it makes good pastrage after one day:
rest. Some of our Maine farmers tells us cattle do not like it as hay, and that the
will eat June grass in preference to it-but will eat June grass in preference to it-but having orchard grass at all, or if so, it is
late cut and wooly, and of eforse not re lished by cattle. A stealy increase in the
demand for the sced has been observal) by our seedsmen during the past few years,
the Messrs. Libly of this city having sol the Messrs. Libby of this city having so
large quantities of it. To sum up what w large quantities of it. to sum to words we
have said in regard to it in few wor
will again repeat:-Orchard grass starts very early in spring, stands drought exceedcrop weil, is verry very rapitity, bears clos
cropinious, is very much cropphed by s
relished
ous meadow.
We are aware the above statements contain nothing new about this now much
talked of grass, but if any of our reader have had sufficient experience with it to giv
an opinion or any new facts about it, ww an opinio
should be
Farmer.

$$
\begin{aligned}
& \begin{array}{l}
\text { Of the vineyarls on the lake shore and } \\
\text { islands, full seven-eighths are Catawban } \\
\text { ind I should say that nine-tenths of the }
\end{array} \\
& \begin{array}{l}
\text { islands, full seven-eighths are Catawba } \\
\text { and I should say that nine-tenths of the } \\
\text { wine manufactured is of this variett }
\end{array} \\
& \begin{array}{l}
\text { wine manufactured is of this variety- } \\
\text { though there is a considerable annount of }
\end{array} \\
& \begin{array}{l}
\text { though there is al wine made at C'incminati } \\
\text { Ives auld Comeorl wion } \\
\text { and other towns in Southern Ohio, and }
\end{array} \\
& \begin{array}{l}
\text { some at Cleveland, Nandusky and Toletho: } \\
\text { solso, small amounts of 1)elaware and Nor- } \\
\text { and }
\end{array} \\
& \begin{array}{l}
\text { The business of wine making is now car- } \\
\text { Ted on with much more of capital and skill }
\end{array} \\
& \begin{array}{l}
\text { hian formerly, and, consequently, the pro- } \\
\text { thact is of better quality and coumpuls }
\end{array} \\
& \text { duct is of better quality and command } \\
& \begin{array}{l}
\text { readier sale and better prices. } \\
\text { ment in the domestic wind trade causes an } \\
\text { increased demand for good grapes, indepen. }
\end{array} \\
& \begin{array}{l}
\text { nereased demand for good grapes, indepen- } \\
\text { lent of the fruit markets, and prevents all } \\
\text { feeling of discouragement in the minds of }
\end{array} \\
& \text { eeling of discouragement in the min locali- } \\
& \begin{array}{l}
\text { ties. At the prices paid by wine makers, } \\
\text { for the fruit, four or tive centit per pound, } \\
\text { the crop is found to pay better than the }
\end{array} \\
& \begin{array}{l}
\text { the crop is foulnd to pay better lands are } \\
\text { average of any other for which her land } \\
\text { aldapted. For table use, also-where the }
\end{array} \\
& \text { facilities for transportation are good, }
\end{aligned}
$$

steamboat or freight cars-the grape crop as paid yuite well, even at the low a
price for the past three or four years. Some vineyards have entirely failed, as
was to he expected, for want of intelligence care in the choice of hand, of its preparaarieties of grapes and the management of he vines. It will be sene, my the statistics,
that the aggregate is only about one-half that the aggregate is only about one-half as any acres a a are plantel each year-the
valance leeing offset by vineyards destroyed
or abandoned aban
Much injury has been sustained, especi-
ally by the Catawba and Delaware vine-
yards, for allowing the vines to overbear; yards, for allowing the vines to overbear; this was particularly the case in the fruit-
ful seasons of 1870 and 71 , when many fineyards were allowed to hear as much as ive or six tons of fruit to the acre. This so
weakencd the vines as to induce disease of he foliage, and thus they were unfitted to en-
lure the severe cold of the winter of 1872 73, which caused destruction of the wood in
many vineyards, and the buds in the majomany vineyarts, and the touds in the majo-
rity, so that the crop of the past season was
not over about one fourth of the nsual average for the entire state, or one-third to a
half in the The Sulphur Remedy.- Much interest was excited at the late annual meeting of our
'tate Horticulture Society, by reports of recents experiments with the use of sulphur
on Catawla vineyarls at the islands. It was stated ly one of the grape-growers from
there, that sulpuring the vines had bee practicel to some extent for several years past, and that, whon judiciously done, it
was found a certain preventative of mildew and rotting of the fruit, and also of the was practiced in 157.2 , the vines ripened
their wood so well as to suffer luut little hamage frem the winter, and thus produced anale frem the winter, and thus prophured
half crop, while vineyards not sulphe fruit at all. These facts will cause
bore very general use of sulphur hereafter, and The practice is to mix sulphur with an cqual guantity of fine air--lacked lime, and
apply the powler with a bellows, of which
uld Mry mannfacture a very cheap style for the
hurpose. The first application is made as Sont as the hlossons are off in June, and re-
peatel once a montli or so during the sumThe labor and expense are quite small
compared with the benefits; and the practice is recommended to grape-growers gene-
rally , cspecially for varicties that are subect to mildev or blighting of the foliag Let us give the experiment a trial and re
port the eresults next year.-- M. B. BATEmam
IIorticullurisis.
horticultural society.
At the summer exhibition of the Toront Horticultural Society, the quality of plants
hown was of a high order of merit and the shown was of a high order of merit, and the gratifying to the Committce. It is a great
pity we have not had these flower shows more frequently, for what is more enj
than to witness a good floral display. In England every encouragement is given
to the cnitivation of Howers. Small cottage
. girdeners hold their fortnities, especially in
shows and in the large ectios are held, at
Low London, several exhibitions are held, at
which the residents of the crowded courts
wide and streets of the big city, exhsely packed
that they have reared in their closel
homes; they take a pride in these small local homes; they take a pride in these small local
cexlizitions which is most pleasant to wit-
ness. ness. There is scarcely a house, or rather
widow, hin the crowdell courts of the poorer
paits. parts of that great metropowis,
tilowers may be scen nearly all the year
round mand might be donne cin the way of holling small
exlibititions in the towns and villages in this exhibitions in the towns and villages in this
country, and whereby a taste for towers
would be cultivatel to a greater extent than at present.

 curl, and injuring the fruit on our trees.
Cherries in this vicinity have been very
nuch injured by them for several yers past,



On Board the Circassian.
This is one of the Allan Line of steamships which carry the British mails. The Allan brothers have now twenty steam ships rlying between Europe and Amer ioa. This is one of the best of this Line,
although they own some that are larger. The Circassian is 375 feet long; her engines are of the latest pattern, and have combined pow
She left Liverpool on Thursday, the 9th fuly, having about 400 passengers, 57 of which were cabin, 40 intermediate,and the remainder steerage. The price of pasThe is $\$ 90, \$ 75, \$ 35$, and $\$ 15$ to $\$ 17.50$. and the weather fine, she arrived at Quebec on the 21st of July; she would have made the trip three days sooner, bo the second day from land she broke one
of her connecting rods, which delayed her nearly a day to temporarily repair it, and when mended the engineer deemed it unafe to use much ower.
Captain Wylie, who, by the way, is oue captains we ever met, is respecteriand admired by passengers and men; he has been in this service for twenty years, as captain, in that time he says he had uick passage than at the present trip.The sea was as smooth as a river; nearly he whole journey has what sea sickness was.
times a day, with the greatest delicacies to please the appetite, and every requirement and attention is paid to their com-
fort in every way; the intermediate pasort in every way, as great an advantage beyond the steerage passengers as they expected, the greatest advantage being hat their company The a more gers are well supplied with good, plain, wholesome food,and apprar well satisfied; he ouly reasonable complaint we heard better with more air below decks.
There are always some strange affairs occurring that astonish us. We will relate one or two :
Many years since a man of the name of
Rnulauil worked at Mr. Rowland's grain ware room, in London, Canada. He moved to Ottawa and engaged in his business, hrick making. His father reand son had not heard from each other for more than twenty years; they had both moved from their former residences. Mr . Rouland's wife had occasion to go to Eng-
land; when there she searched for her land; when there she searched for her different places, she found him, and prenared to take him to his son in America. She gave the old gentleman but two hours he consented. The next day his daughterin law sold all his effects, and before ten o'clock telegraphed to his friends in dif ferent parts to meet them at a railway
station at one fo'clock, at two o'clock they were on board the train for America. The old man is 76 years of age. He is now living with his third wife, who ac
companies him; she also has been married companies him; she also has eeen marriec
three times. The son in Ottawa does not three times. The son in Ottawa does not
know that his father is living; there will be a meeting and a greeting. Seventysix appears an advanced age to emigrate
at, but the old man looks as if he will at, but the old man looks as if he wil
outlive a great many on board that are not half that age.

Another strange circumstance. Wn emigrant is on Doard named Josep he married twenty years ago, he and his wife at that time made up their minds to come to America, and have been saving all their surplus funds since then
for that purpose. His wife, he says, is as good in the harvest field at binding as he is himself or any man; they have alway
only just now accumulated sufficient to
defray the defray the expenses of their passage comThey have five children. This shows the great difficulty there has been in England for those desiring to come to America to save sufficient and en-
able them to do so. This man and his family are just the class that are wanted; they are sure to succeed, whereas, those half gentlemen counter-hoppers and city birds, will, with few exer themselves or Canada
Another case :
A Mr. Jas. Bell, from Cavan, aged 64, who has a wife and child with him, is go-
ing to Omemee, in the County of Vicing to Omemee, in the County of Vic-
toria where he has four sisters settled; they had written for him to come.
shark fishing.
He did not wish to move, and would not rite to them, although they sent letters
o him. They sent a person to fetch him, with money to defray his expenses; finally he yielded, and is now on his way there. The cabin passengers are principally
merchants, and military or naval officers, erchants, and military or naval officers, who are travelling for pleasure; one far-
mer, and very few of other occupations. We are pleased to hear that the Allan Line is ganning in favor. The ships are strong and comfortable ; the last one aunched costs $£ 150,000$ sterling, or $\$ 750-$
Who. This Canadian route is a much shorter ocean route than any other, and the beauties and sights of the coast from Belle Isle to Quebec are much more plea-
sant than three days at sea.

All we would suggest is that the ac sengers be improved, as that is the pas sage that the farmers of Canada are more likely to patronize; a little more attention might be afforded that class of travellers. There is more profit had from them now
than from the first class passengers. We did not travel in the intermediate, but we made?enquiries of all classes on board. The greatest pains are taken by th Alan Co. to secure the best men. That
sailors feel proud of their Line, and say they are better fed and better treated tha on any other Line that runs to Liverpool This company was unfortunate at firs have been very fortunate, not having los a vessel for nearly two years.


Shark Fishing.
During our trip to England we now and the sailors ; the above engraving illustrates one of their yarns. Here is Jack's description
One bright morning a shark was observed following in our wake, and we sailors, who are very superstitious $f$ elt that if we did not
catch him he would catch some of us as catch him he would catch some of us, as
we think that if a shark follows a vessel, and is not caught, it is a sign that some one on board will die, and thus give him a meal
We got out our line and baited it with a pe giece of fat pork, and it was no sooner a propece into the water than Mr. Shark made
a grab at it, turning over on his back to catch agrab at it, turning over on his back to catch
it , but he caught more than he anticipated, for their was a hook within the meat by means of which he was soon landed on board
the vessel.,

## 

GRICULTURAL arasshoppers in minnesota. A despatch dated May 27th
from St. Paul, Minn., says from St. Paul, Minn, says
that Governor Davis, in re sponse to circulars favis, in rearded
shat nswers to the effect that large numbers of young grasshoppers are being hatched in the of the State :-Lyons, Martin, Jackson Nobles, Watonwan and Cottonwood, all of wheat--growing counties on the line the of thest
the St. Paul and St. Croix Railway. The re-
ports received are substantially agreed, and ports received are substantially agreed, and
ii appears rom them that the hoppers came
last year full-grown from the soouthwest. In last year full-- grown from the hoopthwest. In
some places there were a few of the some places there were a few of the eggs
natched last fall, but otherwise the eggs remained in the ground all winter, hatching out early this grring on the light soil with warm exposure, and continuing since to
hatch out daily until the ground is covered by them. It is noticed that on ground which was plowed over they had not yet hatched out,
and it is possible the eggs were covered so deep by plowing that they may not hatch out. On their first appearance the young
grasshoypers make for the tenderest shoots grasshoppers make for of young vegetables,
of grass and the tops
eating everything above ground. Generally eating everything above ground. Generally the growing grain is not seriously injured by
them, though many fields have been strippedt hare, but, with favorable rains, these will
be likely to grow again. e likely to grow again. troying the eggs of the grasshoticed as destroying the eggs of the grasshoppers, is not.
larger than a grain of wheat, and, under the microscope sight, appears to be a spider,
with legs and teeth to mateh. Its instinct is to bore into the ground and destroy the ggg. The grasshopper country is also sup. phied at this season with immense flocks of almost entirely on grasshoppers.
the clover crop.
Probably no other crop is so badly man-
aged as the clover crop; none is put in the ground ine more careless manner, and none spring, up to the moment, then cut for hay, and then again for seed, and again pastured
an the fall, until winter stops its
growth in the fall, until winter stops its growth,
when it is left to be frozen and thawed and exposed to every change of weather until
it is time to plow the sod, or what is left of It is not at all strange that when this crop is so used its fu 1 value is not appreciated, although the fact it survives all this, and
findly, in its last stage, helps to make a a crop
of corn, is not the least of the many proofs of corn, is not the least of the many proofs
we have that its value is greatly underrated. we have that its value is greatly underrated.
Again, its mismanagement does not stop Again, its mismanagement hay it is very
here, but when it cut for hay
rarely that this is done in such a way as to rarely that this is done in such a
secure the full When clover is in full blossom it is at its
point of greatest value for feed. It then contains a much greater amount of nutriment, and much less of indigestible matter
than when fully ripe. $-N$. $Y$. Times. Che "Garden" gives the following, which
seems more practical than anything we have
seen before seems more practical than anything we hav
seen before:--
" Sulphuret of calcium dug in around th root of vinuet is considiered to have a opowerful
effect in destroying Phylloxera. This gives efise to a true sulphuric ecid, in consequence of
rise m
the misture of the soil and the gentle disngagement of carbonic acid. It serves albo
equally well to destroy caterpillars and other
in jurious insectes which are frequathtly so difir jurious insects which are frequ,"
ficult to remove from vegetation."
Scott Wheat. -The demand for this wheat was so great last year that wo
could only supply the first orders, and some were obliged to take only the second quality. We can now supply first quality at $\$ 3$ per 100 lbr . We believe it to be sow. Those requiring it should send their orders early, or disappointment both in time of delivery and quality may ensue. cultural Emporium, London, Ont.

August, 1874
THI\# HARMME'SADVOOATE_
heavy versus light implements. Many people appear to be unaccountably
stupid in regard to the most economical and convenient weight of implements and vehicles, and especially the weight of one-horse and two-horse vehicles. A arge proportion
of the four-wheeled and two-wheeledvehicles in use are sufficiently heavy and strong to
bear three times as much, with entire safety, bear they usually carry. The two-wheeled
coal and dirt carts are often sufficiently heavy for a single horse without any load on
them; and the huge four-wheeled express waggons are almost always built sufficiently heavy to carry with safety all that four or six horses ought to draw. There is great
need of an improvement in regard to the weight of almost any kind of implements and vehicles. A horse of ordinary size will draw
on a smooth road, one ton anywhere, with ease, besides the vehicle of suitable
weight for oue animal. In hauling earth of any kind, or stone, one horse would take 2000 pounds with no more fatigue
than he now feels when he draws only seven or eight hundrec p punds on a large
lumbering cart, many of which will weigh lumbering cart, many of which will weigh
from ten to twelve hundred pounds withont any load. It is truly surprising that intelligent neen do not perceive this fact. By reducing the weight of an implement
six hundred pounds, which could often bix done with sufficient strength, the team would be able to hanl six hundred pounds more of earth or stone at every
load by exerting only the same strength. The same principles hold true in the construction of hind tools. A abouren
shovelling earth with a shovel only one shovelling earth with a shovel only one
pound heavier than a neatly made light shovel, will exert strength to no purpose sufficient to throw up one pound of earth
at every shovelful, which would amount to several tons in a short period of time, Many ex cellent teams are well nigh ruin as most teamsters are apt to be governe by the number of pounds that is place,
on the vehicle as a lond, rather than by on the vehicle as a lowd, rather than by
the weight of the waggon or cart the weight of the load in aggregate. Whea
and
farmers are hauling material of various farmers are hauling material of various
kinds, they are not always aware of the
unnecessary weight thev requive thi unnecessary weight they require the
teams to haul to and from the field. Hay riggings are frequently made more
han one hundred pounds heavier than is neeessary. If only made as light a consistent strength would admit of,
team might haul one hundred pounds
pell as to nore of hay and grain just as well as to pounds of rigging
Ploughs are r
Ploughs are frequently made twenty
pounds, or even more, heavier thian i pounds, or even more, heavier chas as
really essential to secure the necessary
strength of matorials. Every goo strength of materials. Every goo
ploughman knows that an addition of plwenty pounds to o aplough that is alread as heavy as it ought to be, greatly augders ploughing far more laborious for the
ploughman than if his implement were as light as ploughs might be made for er strength of materials for the purpose ascertaining, as nearly as practicable,
how light every implement may be made consistent
riculturist.
departmert of agriculture report,
E.The June report of the Department of Agriculture, concerning the condition
growing crops,

Wheat
The breadth of wheat, both winter an
apring, has been increased. The indicate spggregate increase is 107 per cent.
The rednction of acreage in Vermont and elsewhere in New England, is owing to th elsewhere in New England, is owing to tine
lingering of winter in the lap of spring,
which caused a portion of the land intended for wheat to be planted in other crops.a realization of the necessity of growing
home supplies on the part of a few planters. home supplies on the part of a few planters
The remunerative prices of the past year ing in the West.

1. The condition of wheat is better than the
average of a series of years. In some in
and average of a series of years. In some in
stances rust has attacked the stalk and de stances rust has attacked the stalk and de
stroyed the heads, but generally is confine
Rye.
$\begin{aligned} & \text { In most of the states the acreage in winter } \\ & \text { rye is fully equal to, or surpasses that of last }\end{aligned}$
$\begin{aligned} & \text { rye is fully equal to, or surpasses that of lasi } \\ & \text { year. The comparative aggregate area is }\end{aligned}$
$\begin{aligned} & \text { year. } \\ & 101 .\end{aligned}$
Oats.
$\begin{aligned} & \text { The breadth of oats is increased two per } \\ & \text { cent. The condition of the crop is slightly }\end{aligned}$
$\begin{aligned} & \text { cent. The con } \\ & \text { below average. }\end{aligned}$
Almost the only variety of oats success-
fuly, grown in the South is the "red rust
$\begin{aligned} & \text { years in a single locality without rusting. } \\ & \text { The testimony is general, almost universal, }\end{aligned}$
the testimony is general, almost universal,
$\begin{aligned} & \text { some signs of rust are reported. Drought in } \\ & \text { May, after long continued rains in April, ha }\end{aligned}$
$\begin{aligned} & \text { May, after long continued rains in April, has } \\ & \text { been a prominent cause of inferior condition. }\end{aligned}$
$\begin{aligned} & \text { to the leaves. In North Carolina depreda- } \\ & \text { tions of the chinch bug are reported. While } \\ & \text { he ave }\end{aligned}$
$\begin{aligned} & \text { the average in Texas is not high, the quan } \\ & \text { tity of wheat will be largely in excess of } \\ & \text { former }\end{aligned}$
$\begin{aligned} & \text { former supplies, and in some counties the } \\ & \text { yield informally reported is very high }\end{aligned}$
$\begin{aligned} & \text { In West Virginia, and in al, the North } \\ & \text { Western and Pacific States, an increased }\end{aligned}$
$\begin{aligned} & \text { acreage is reported. In West Virginia wheat, } \\ & \text { in some quarters, stands drought better than }\end{aligned}$
$\begin{aligned} & \text { in some quarers, Several counties anticipate } \\ & \text { any other crop. Sor } \\ & \text { the finest crop for years. In Russell, Ky., }\end{aligned}$
$\begin{aligned} & \text { rust has spoiled a splendid crop; in some } \\ & \text { other counties drought has prevented the }\end{aligned}$
$\begin{aligned} & \text { other counties drought has preventedition } \\ & \text { filling of the grain, but the general cond }\end{aligned}$
$\begin{aligned} & \text { is } 25 \text { per cent. above average. North of the } \\ & \text { Ohio River the crop was considerably winter } \\ & \text { iniv. }\end{aligned}$
$\begin{aligned} & \text { killed. The chinch bug is reported as inju } \\ & \text { rious in some counties of lllinois and Wis }\end{aligned}$
$\begin{aligned} & \text { consin. The prospect is is bow average } \\ & \text { all these states except Illinois, which reports }\end{aligned}$

sun rise.
winter wheat 117, and spring wheat 108.-
In some counties of Minnesota there is In some counties of Winnesota there is
tendency to intrpoduce winter wheat. Th
crasshopper is at work in Steele and Fari grasshopper is at work in Steele and Fari
bault counties. In Iowa, Missouri and
Iangas the chinch bug is threatening exten Kansas the chinch bug is threatening exten
ive injuries; otherwise the crop is generally very promising. The dry weather in some bealities has greatly shortened the straw
but the heads were filling rapidly. In Kan as chinches were more destructive on up
and orops. The Rappahannock and Fultz wheats are generally well reportod. The Touzelle succeends in some cases; in others it is a complete failure. Dry weather in the
fall reduced a superior prospect of winter wheat in Nebraska to about an average. On the Pacific coast there has been a consider-
able increase in acreage the condition is able increase in acreage; the condition
above average. In some localities excessive
tins have iniure

## Sunrise.

What a glorions hour this? how fragrant the lowers, how fresh the grass borders and
every herb and plant in the garden? It seems another spring, with more than a spring's luxuriance. Rat yesterday at noon very green thing was witted, and seemed
withering away. There was no song from the grove; the cattle found no delight in the
pasture, but sought the grateful shade.pasture, but sought the grateful shade.-
Now alli is life and anination, and every tree
ives forth its song. Let us a way to the gives forth its song. Let us away to the
fields;-- here all things are tlourishing. It
is said the greatest growth of all plants is at night. We think differently. When the sun, at his first rising, adds to the refresh-
ing dew the life and light of the early morning dew the life and light of the early morn-
ing, then all vegetation starts forth with a ing, then all vegetation starts forth with a
vigor only then experienced. Such are the
morning and such the mornings and such the scenes the Editor of
the FARMER's Advocate has been enjoying
in the Old Home, Merrie England. In the groen woodid and thoo thatiy hane, fragrunt

$\xrightarrow[\text { SUPERPAOSPHATE. }]{\longrightarrow}$
The discovery of the use of superphospl ie fones as a powerful manure was madd by Sir James Murray in the year 1809, and he
subsequently used it on a large soale on nis subsequently used
own farm at Pointrield, near Bealfast. Ia
the year 1812 he presented to the Bei ast he year 1812 he presented to the Besi 2st "murphies," grown on a field which had been frequently visited by the members of a Belfast Boarr of Guardians, "to see pota-
tosas growing over vitriolized bones."
One oes growing over vitriolized bones.
One of the collateral advantages of the
uperphosphate of bones is the rapid decom. posphation of bones is the rapid decom-
pones and their liqueapply just enough of the manure as
is needful for the one crop for which is needful for the one crop for which
it is intended. Crude bones are it is intended. Crude bones are
many years ingiving ont their chemi-
cal components-in other worts, in cal components-in other woris, in
dissolving, as the following oase will show. A friend of mine, in applying for wheat, found that there would be a considerable quantity more than he
expected, and told his foreman to lay on a larger dressing on the rest of the
field. The man immediately began field. The man immediately began
to give a double dose, which, as it to give a double dose, which, as it
was impossible to rectify the error, was passed over. Eleven years after
this the field was again nuder wheat this the field was again nuder wheat
for the third time, and having a friend for the thirrd time, and having a friend
staying with him he took him round is farm. On coming to the fiold in question, he requested his ing and
take partionlar notioo of any diffr-
ence he anw in the orop. Coming to ence he saw in the crop. Coming to certain part of the field-"How is
this?") he asked; "the wheat here is several inches higher than the rist of
the field." He then told him that leven years previously he had given sing of bone manure, and that the fertilizing materials were not yet ex-
hausted. This is easily uccounted for by an analysis as follows:-One pound of bones contains phopphate enough for 23 pounds of wheat. A erop of
oheat of 5 qrs. per acre, at 60 lib phe.
bushel, weighs 2.400 pounds. Divice Wheat of 5 Irs. per acre, at 60 . Dibe per
bunhel, weighs 2.400 pronds. Divice
this by 23 , and it pives rather less this by 23 , and it , pives rather less
than S6 pounds of bone for a crop. ton and a hayf per acre, was enough for 42 good crops of wheat if properly managed. superphosphate
of bones has changed all this, and the farmer, by good managemement, can put any annount of bones on his land he
chooses, and in a state prepared for chooses, and in a state prepared for
immediate ahsorption by the crop.
Mark Lane Express. Mark Lane Express. experiments, of mardening, observes a
riculture and gat London paper, have lately been revived by a German aavant. Very
many years ago it was discovered and many years ago it was discovered and
recorded that water, saturated wwith
camphor, had a remarkable influence camphor, had a remarkable influence
upon the germination of seeds.-
Like many another useful hint, the 1 hint, the stupid world took no heed of this intimation;
buta Berlin Professor came across the reo cord hof it, and he appears to have establish-
ed the fact that a solution of camphor stimued the fact that a solution of camphor stimu--
lates vegetables as alcohol does animals. He took seeds in various sorts of pulse, some of
the samples being three or four years old the samples being three or four years old,
and therofore possessing a very slight degree of vitality. He divided these parcels, plac-
ing one moiety of them between sheets of ing one moiety of them between sheets of
blotting paper simply wetted, and the other blotting paper simply, wetted, and the ther
under strictly similar conditions between
sheets soaked in the camphorated water. sheets soaked in the camphorated water.-
In many cases the seeds did not swell at all In many cases the seeds did not swell at all
under the influence of the simple moisture, but in every case they germinated where
they were subjected to the camphor they were subjected to the camphor solution
The experiment was extended to differen The experiment was extended to different
kinds of garden seeds, old and new, and kinds of garden seeds, ola and new, and
always with the same result of showing a
singular awakening of dormant vitalism and singular awakeningo of dormant vitalism and
a wonderful quickening of growth. It also
appears from the Professor's researches that the young plants thus set shooting continue
to increase with a vigor and vivacity much beyond that of those which were not so
treated. On the other hand, when pounded camphor was mixed with the soil, it appea
ed to exercise a rather bad effect upo
seeds. seeds. The dose in this latter case was po
sibly too strong. At all events, there is
here up by seedsmen and gardeners; and even farmers might try how far wheat and barle
would promit from the strange property
which seems to be possessed by this drug would pront from the strange prop
which sems to be possessed by this
over the latent life of vegetable germs. dekper cultivation. More than thirty years of attentive, prac
tical, and theoretical observations have co firmed the views I at first expressed that the land of Britain as a hhole is not half farme might be profitably much more than doubled investment. I am not so Utopine as to ex pect the long-estabished practice and opin
ions can be suddenly changed, although would be only reasonable to hope that the
marvellous novel conditions affecting agri maltureas well as manufactures should great
cy modify and alter antique agricultura ly modify and alter antique agricultura ence, must, howeve, ultimately seact upo agricultural practice ; therefore as well-wish ers to their country should support and en courage agricultural agitation. There ar
certain safe and proftitable basis for agri
cultural ${ }^{\text {Investastment, }}$ which are, as a rule cultural jinvestment, which are, as a rule
absent and wanting in agriculture--viz proved to my own satisfaction more tha thirty years ago, and to these I will add a
third, I mean steam power ; and that I have used for twenty-six years, and wonder Low and why farmers with capital can do with-
out it ; but I shall confine my present observations principally to deep cultivation by
disturbance of the hitherto unmoved subsoil The more I prove practically after thirty the more I become convinced that those tha depreciate a deeper disturbance of the soil
are doing a great agricultural mischief, pre who new more of the practice of agricultur than any other man then living, and who, nature's agricultural laws in relation to the
soil, the plant, and the food of the plant gives us in his grand word. The Natural for disturbing and aerating the undersoil.
P. 9. "The root fibrils will always extend in that direction in which they encounte with a comparatively feeble remification of foots in the apper layers of the soil, stil etrate several feet down into the subsoil. have been made. In some cases it has been rape about five feet, clover above six feet, lupine about 7 feet in length." "A proper
knowle.'ge of the radication of plants is the groundwork of agriculture.... therefore, to should prepair the ground in a proper man,
ner for the development of the roots In the second half of the period of development the roots of the turnip plant having enetrate throug the arabe surface deep in their preceding stage. If we suppose
that the absorbing spongeoles of the root than the uppr soil poorer in potash in that material to yield a daily supply commensurate with the requirements of the
plants, at first, indeed, the plant may appear to grow luxuriantly ; yet the prospect of an abundant crop will be small, if the sup-
ply of the raw material is constantly decreasing, instead of enlarging with the increased size of organs. The vigor with which ceral correspond to the development of the root. Schubert found as many as 11 side-shoots in rye plants, with root 3 to 4 feet long; in feet, he found only one or two ; and in some
where the roots where but $1 \frac{1}{2}$ feet, no side shoots at all.". P. 88. "The true art of the practicat farmer consists in rightly discrimi
nating the means which must be applied to make the nutritive elements in his field ef
fective, and distinguishing these means from
 which inperat fertility to a a soil not originally
deficient in the means of nourishing plants; and that a comparatively poorer but well
tilled soil, if its physical condition is more avorable for the activity and development of the roots, may yield a better harves
than rich land." Combined with deeper han rich land." Combined with deepe
caltivation we should have that which faci-
litates- 1 mean drainage. Liebig says in his litates-l mean drainage. Liebig says in his
Natural Laves of Husboundry, p. 290, "The influencee of a a proper physicall condition of
the ssil upon the produce can hardly be more convincingly proved than by the fact
which agriculture has derived from the drain age of landic, under which we comprise the removal of the subsoil water to a great depth,
and the quicker withdrewal from the nd the quicker withdrawal from the arab
of the portion circulating in it. A great
nany fields, unsuited by their constant hu idity for the caltivation of cereal plan nd the superior kinds of forage grasses, hav
been reclaimed by drainage, and made it bo produce food for man and beast. When
the farmer, by means of draine, he farmer, by means of drainage, keeps
within bounds the amount of water in his fields, he controls itt injurious influence at
in seasons; and by the speedier removal all seasons; and by the speedier removal of
the water, which soaks the earth and de-
tro stroys its porosity, a path is open for the
air to reach the deeper layers of the ground,
and to exercise upon these the same beneand to exercise upon these the same bene
ficial influence as upon the surface soil.,
My 20 odd years as a practical farmer have My 20 odd years as a practical farmer have
convinced me that the profit of farming,
especially on soils like mine especially on soils like mine, naturally
wretchedly poor, depends a great degree on
draining a deep disturbance and manuring draining, a deep disturbance and manuring
of the soil and subsoil, plenty of fat stock of the soil and subsoil, plenty of nat seed-
manure, no weeds, and not too much seed
combined with the absenceo ftrees and fences and with the presence of a steam engine.

My observation of the treatment of sandy done, and without any unnsual efforts. myself have treated such land, and seen
done to a considerable extent on the borders of the North Woods, particularly on the John Brown Tract, where the soil is of a
yellow or grayish sandy nature, appearing yellow or grayish sandy nature, appearing
to the view to be all sand. Yet the forests
that have grown upon it show that there is that have grown upon it show that there is
something more than sand. They have furnished the soil with some humus; and there land was probably of a similar nature, containing some veg etable and other materia
necessary to grow, else it could not have grown "scrub oak", and "pine."
Such soil is treated successfully simply by
the common means of improvement, barnyard manure, green crops and other fertilizers.
There is a sufficient clay with the sand for a basis. The manure applied acts chemically upon the sand, releasing plant food, besides
pushing forward the crop. The main point is the mode of application:-in no case
islow under the manure. The point is to keen plow where the plant is, which on a a sandy soil
it whe
beiny loose and porous, is difficult If not taken up by the plant in a given time, it (in
its downward course) will be lost.. It is folly then to put it down at once by the
plow, which is aiding its disappearance New, which is do to apply it in the fall,
Nearthicularly if done early, and leave there till spring, when the crop, is sown. Some o
the strength will wash down and get beyoni the reach of the roots; the latter growth wil coat of manure is given, there will be more growth, also more loss. The point is to ap,
ply the manure when the grain is sown mixing manure, seed
row being preferable.
To seed to grass or clover, the same rule holds. It will not do so well as to apply crop sown, or for land, thau prepared and sown in the spring. Timothy may be sown
with wheat if put in early, or better in the spring as early as the manure can be applie
and the land sown, to be harrowed in ligh Iy. Never omit to cover seed in sandy soil
The seeding started, it can be kept growin
by early applications of top-dressing till a
good sod is established. Sheep will help
to do this. The sod turned down lightly, to do this. The sod turned down lightly,
not exceeding three inches or three and a
hat half being better-a crop of grain can be
rased, with or without additional manure
But rased, with or without additional manure.
But the year following manure must be ad
ded without grain is sown on the ded without grain is sown on the land or pat to grass or clover, light prowing ojeing
continued so as to keep the fertility at the
surface. It must be kept there as much as surface. It must be kept there as much as
possible always in a sandy soil. The princi-
ple is too obvious to be misunderstood. And ple is too obvious to be misunderstood. And
sod is an excellent material for this being
well disturbed through the well disturbed through the surface soil, and
held there longer by the time occupied in its
decomposition held there longer by the time occupied in its
decomposition. For this reason, also, raw
manure has an advantage, letting loose gradu-
ally its substance.
In this way the land can be worked rich along profitably, and improved allt the while
with but little of the fertility lost that is ap plied. A heavy dressing would loose more
of the manure. Hence light and frequent application is the true theory. I find it also
the practice in sections I have visited wher the practice in sections I have visited where
the land is leachy. Parts of Stenben county
N. Y., are of this character, where I first got my ideas of the treatment of such soil.
But the attention to the land must not But the attention to the land must not
remitted, else it will son go back to its
original state, when tren original state, when trees or deep-rooting
plants alone can retain a footing. It is however easy to keep up the land after the start
is well made. All that is necessary is to cultivate shallow, and feed the soil at the
surface. The advantage of such land is besides its perfect drainage, that it can be
worked early, thus getting the benefit of so as to shade the ground, and thus protect it from the hot sun and the drying winds, which otherwise would deprive it readily o
its moisture, it being less capable of with
standing drouth than standing doun gratified at the sight of land in the town of Salisbury, and bordering on the
North Woods, where crops of grain, grass
and clover rose dark and thick, and on soil and clover rose dark and thick, and on soil
that no many years ago was barren. It is made really profitable, and continuously so
There is another advantage that may be
be realized in the improvement of light sandy
sroil that may be mentioned here. It is the sroil that may be mentioned here. ingrelient
use of compost, in which a large
is soil, and that soil clay. If clay is acces sible, it may be used largely -three or four
or more parts to or more parts to one of manure. This walk
retain all the strength of the manure, make a superior dressing to mix with the topsol
and holl the fertility. A few heavy dres. sing will give permanence to the soil, and in
the long run it will be found to pay.-
Country Gentiemen. value of manure.
The farmers of this country need many lessons upon this subject; ; and we are always
glad to here of agricultural clubs discussingit. It will be found that in almost every instance
of a farmer who has become forehanded from good husbandry, the has been a liberal user of manure. John Johnstone, who is perhaps
the best wheat farmer in the State, not lons since, when asked in what his success
chiefly lay, said: "Manure and plenty of
," He wher it." He perhaps, nearer than other men,
has applied Enylish practice in American
soil, with only such modifications as were necessary in the changed circumstances The Country Gentleman relates ar receut con-
versation in which Mr. Johnston mentions purchasing 5 a acres of a neighbor who hal so little faith in manure, that a ten year pro
duct lay in the barn-yard, and the seller re
marked that manuredid no sood on his land mat Mr J. said "the manure paid every cont
Bor the farm." On that same fifty acres, in for the farm." On that same fifty acres, ill
bad season, when the average crop of the
neighborhood was not more than five bushels neighore
he raised
per acre.
The Germans male the production of man
ure the first necessity of the farm, and the are able to keep as much stock upon twent acres as we do upon 100 acres. It is witi
manure as with feeding, the pay is best with
most liberal allowance. The soil of our oll est state is by no means exhausted. It his
been inpoverished only in a few elinents
and these elements are all represented and these elements are all represented i
barn-yard manure. The barn-yard manur contains the residum of all the element
takean from the soil in the crop harvest. Th.
true policy then, is to keep as much stock
as possible and carefull y must true poicy, then, is to keep as much stoc
as possible and careully hhalsand the
manure for replenishing the soil. This hat
been the plan pursued by Mr. Johnstone.
He has regarded the manure so valuable that he could defforl to fo fed all his coanse
grain, and buy largely of corn and oil-meal grain, and buy largely of corn and oil-meal
to increase the value of the pile. He goes on the planone fhe vall seeting of the and fule. He manees on
The above illustration is as strong as any we have ever remembered; whenn heo could take
the pile of neglected manure upon a farm,
and by its effects upon crops, on the same anam, produce a surplus suttic, on the same
farme to pay the
market value of the lanil.

## But the Thorough Culture

Bint the greatest effect can only be olt, together. Mr. Johnston is also a most
skilful manipulator of the soil. If the soil is poorly worked, the best manure cannot be astributed, and therefore the crop cannot part of thlorough culture. Without the main cold and anss off reatility, the soil will re-
plants. plants. The best possible manipulation of
soil is thrown away without it is suf.
ficiently dry to pulver have little effict on on an arhesive soil, which Sreat disalvantatage that with water. Onc
lican farmers
labor under is want of can labor under is want of capital to thoronghly
till and manure their excess of acres. They tif and manure their excess of acres. hey
ushally own and try to work two acres
where they are ouly able to work and manure one. The reforms needed are more man-
ure and better culture.-Live Stock Journal.
mprove tie quality of hay It is a noticeable fact that the hay crop as
generally stated is far behind what it should Le in point of quality. If soil is so ill-ad-
apted to grass that a heavy yield cannot be obtained, there is no excuse for having an in-
ferior grade. An exchange, and we regret
to be unable to say what one, gives the following on the subject
there are two ways in either of which the
farmer may swucced in sults. The first and, as far as the present results is concerned, the easisst way fros him
is to obtain the seed of some of the varieties of grass which, while making first rate hay
are also adlapted to his land may be wet and are also adapted to his land may be wet and
cold, filled with bog or selge grass of miserable quality
Now, if the Now, if the owner will turn over the tur
and let it rot (meanwhile obtaining a crop o corn, oats, or some other grain), and then
seed down with Alsike clover, red top or even fowl meadow grass, he will not only
greatly improve the talility of his hay but
also increase the buatity alsc increase the buantity. EEven timothy
can be sown on wet land, and for a few years produce good crops. The tendency is, of
course, for the old wild grass to supplant th improved kinds, although the clover, being a great while ecen in cold and poor land.
If this course is pursued it is probable that the process will have to be repreated every
four or five years in order to maintain a first Thate quality of hay.
This system, as we said above, is the asiest and, as far as present results are con
cernecl, without any regarid to future comfort or profit, the most profitable method to pur-
suc. But if the farmer looks to the future, no all men ought, and endecavor to provide
not only for the present but also to prepare
for the future, he naturally desires some nethol of improvement which shall be suc
cessful in its present results, and also be permanent value to himself and to his farm. dranage and an frigh manuring. It is io bjoceted
that these things are too expensive? Re. member that everything of value is isexpensive.
It costs to improve it, But the improvemant is a perpetual benentit. Every, year it pays
something towards the expens. Suppose a A farmer has a meadow containing to
A
cres of good land with the exception veing cold and wet. Recause it is wet it
is cold, and because it is wet and cold both, it will produce only a very inferior guality
of hay. It is not suitalle for other crops All that he does with the land is to mow it
once a year. He obtains about a ton of hay ver acre and when well cured it is worth
bout ten dollars. The land he calls worth
. bout lifty dollars per acre. Sow let hater
lig large ditchesto take off the surplus water
et him expend in this way two hundred dol ars on the lot.
The dirt thrown out of the ditches will
be worth at least fifty dollars-probably

August, 1874.
THE FARMER'S ADVOCATH
more-to put into the barnyard for compost.
This will leave one hundred and fifty dollars as the cost of the improvement of the ten
neres. The land will now be in condition to
will be bear grass or any hood crop, and will be
worth one hundred dollars per acre. It


 | was drained. Now apply manure, and large |
| :--- |
| vegetable crops will be obtained. The in | three years pay for all the work, while th thane years bayrth doulle the price it would

sell for before it was improved.-Ohi sell for
Farmer.
fow to apply manure Observation and experience should deter-
mine the mind of the farmer in regret tor
the bet to plowe than onder dppeen or or leane it wo the the
surface. The advocates of surface manurie speak against manure leing surnace manurn tor to deep, while the advocates of deep manuring
charge surface manuring with fertilizing the tmosphere.
But there
But there is a medium course, and each
theroy is upported by plausible arguments. However, there are true philiosoppical prin ciples against burying manure too deeply
the earth. The lossof the saline
anter the manure, by solution and infilitration, ,will
be great in porous sion,
and holding opiuions adverse to surface manur ing, would to onlly y amall drop in a bucket compared to the loss by salution. Ly poron
soils it is well known that manure will pene trate to a great depth, and nuch animal surface growing plants.
surface growing pants.
Humms is formed by the decay and lecomposition of vegetable matter, which, in the
plitiosophy of nature, is manipulateec on the philosophy of nature, is in ininpuatea in manure should be taken from the indications sumption of one crop for the niouls and anid the another, the chroppins on defoliation of trees anip plants, are all left on the surface.
This seem
 atopt the plano
the manure and vegctable matter as near the surface as possible. There is always some
loss by evaporation, but much less than by infliltration It should be a leadiny ide
with tanmers to be close observers of sucl natural operations, in the growth of spon
taneous and cultivated vegetation, and ac nature as nearly pact possille. - " $A$ griciohe the birds que faraiens' best friends, More than the soil is included in the far
ner's realm. He has dominion, also, over
 wise become pestiferous in its great prol facc. The disturbaneo of the proper bal
ance between the feathered and insect tribes is fraught with incalculable mischicf, affect.
ing the food, the health, and the life of man.



 they will cease to trouble him only in tro
portion as he shall restore the balance, of which nature shows the neessity.
That the loss of this lalewer

 wows. whil
week s. family supplics. The tyy-catchers do
not



 Noodpeckers are constanty seeking insects
in the bark of treess
Tontits of theiri favorite food, The robin and red.
winger black bird obtain their food almost wined blackerird obtain theirir foon almost
exclusively from the ground; jays, crows
nighty night-hawks and whip-por- wills destroy
inmense
inantities of beetles - an ingly proinic race. The golaten robin and
black- billed cuckoo feed on the tent caterpillar; they can with justice be called great
friends of the farmer, who should take them under his protection instead of destroying
them ate very popornity as many do.
The fickerer or spotted wood wecker has actuThe ficker or spotted wool pecker has actu-
ally been seen to probe the gummy living places of the borer in thi tring forth and de
roots of the peach, and bring stroy the pest.
while
While the farmer suspends his operations

 of worms.
Such instances of special utility might the
multitilied , but tit is only designed in this

untide to \begin{tabular}{l}
article to briefly show the practical relations <br>
of birls <br>
with man, and call the attention of <br>
\hline

 

armers to a further stuad of or hate <br>
and utility', as important items of domestic <br>
\hline
\end{tabular} aco ong., Better provisions should be made

econ their protection, irist is thelistof whie. Ior their protection, first in the listor which
luws should be enacted
with stringent 1 roo. Taws should be e enacted With stingent pird
visions rrohibint the killing of song birds
atany time eecent thy than tume except by natura ists for scien
tific pruposes; and restricting the killing of
tam game burts thech seasonsas
fere with their propagation or with their eore wint into market in an elible condition.
Laws alrealy exist looking to these ob Laws already exist e oking to these on
jects, but in many cases are .lefective in the tinine covered by the pronibition, in the pro.
visions affecting the certuinty of their exe. coution, in tho indequacacy of their penalties,
and in other essential respects.
Nor will
 season, tine of pairing, etc.
They should be framed
by servant men, with the advice of the wisest
naturaliste naturalists ; and, when enacted, public
opiniou should compel their strictest and While we try to prevent their destruction
the conditions favorable to their incease should be promoted. Actual facilities for
shelter and nesting should be afforled thei sheter aned food and haunts preserved, and
ancustom
practical invitations extended to the most useful to settle on the homesteal near th
farm buildings.
Those that are wont to oceupy our gardens and fields, as the wren,
yellowbird, robin, bluebird, and others should be provided with nesting boxes and trees.
(iardens have ,fften been preserved from the ravages of insects by py placiug bird house
and nesting places within their limits whe neighboring gardens have been destroyed.-
In cherry or berry time some little device may ye used to keep them away, such
tyin pieces of wrigt tin or hhitr rags anong
the Iranches, when they areice the iranches, when they are inclined to take
too much toll for their services. With cul
 with
with think
mers ani niers ant others in different sections, and
liftus suci as the Westron limert, would do much


 have a better k.
W. sitrun R Rurul.

$\qquad$
 pense. Corn is a a gross feeder requiring
more stimulating manure than any of our crops- Nothing but that from the hog pens
vill suthice tor its wants. To supply a lux-
 and demand, but as an artuite of
does not compare with buck The
lour of but Hour of both grains are only relishen when
made into cakes or fritters,
and eaten warm. We have a great deal of lead in New Bruns or raising buck wheat as other sols in por-
ions of the A sligit top diessing of 200 lbs; weight or good crop of the letter. While land to sive corn reqnires, as we heard a farmer
nee say, to be stuk wid with dung nand the nee say, to be stuffel with dun
 cired to proaluce 100 bushels of either it
on ind
ondinitely in favor of buckwheat, and its daptedness for feeding purposes, so gen-
darall, that there can beno comparison made

wastrevliness on the farm
Few farmers can be open
the charge of wastefuluness.

 lutete reperataion of land for a proper seed
plet is oemething enormous. Nor is it in
bedi one direction alone or in reference to any one
variet of seel.
It is too common.
But we wish to speak more particularly with re-
gard to the loss of sead in the methods of gard to the loss of seed in
seeding down land to to grass.
 of the seed "to catch." It is worth while
to in 4 uire whether this is owing to intuences
 occurring year after year, or to the the mistakes
so often made in the mothods of seeding. I nature to llame or are we trselves respon-
sille for it t? Let us lowk at ita a monnent. Probably in a maxiority of cases throughoun
Vew England the old methols prevail od seeding in the spring with grain. We do
not overlook the fact that many inteligent nd progressive farmers have adopped th
ractice of fall seeding, and like it, laying
 nains.
laying dew wh see what is the effect of thin
ling thing with grain. There is no kind of grin that diese not draw
heavily on the ellements of plant food in the soil. The soluble materials that enter go
ceadily into the cirecllation and growth oo plants, helping to build up their structure
are seized upon tirst and absorbeel, leaving the soil in a roducecal conditition. No Nayte
what the particular kiend of grain may be neeled dy the grasses, the effect on the soil so far as its relation to the grasses is con-
cenned, will be the same.
 of the stalk corresponds to the sive and vi
tality of the ront, and this is so jossted aid
 not and does not thive as it would if it had
the free nuse and the sole possession of the land. In these conditions a very large part
of the seel will dic from suffocation and tarryation almust as son as as it yerminates.
Thiee portion which survives this severe
 fight its way alony "unt ane inain is cut in
the heat of a d July sun, and its last end will


 Now this is just what takes place where
the small and tender grass seel is sown dies immediately after germination from
tarvation and want of room, and what tives
the in the e hade is os onfofeboed, that it dies on
exposure to the sunf e There is undoubtedly agreat waste of seed, let the seasoon be whit may be at the time of cotting the rrian, but
when this happens in an dryan hot time
 yreat. Sowing grain and grass seea together
is very much hike esting out an orhart or
anusery of tender trees and shrubs in the nursery of tender trees and alirubs in the
nidst of a p pine forsast; the pines can at and
pert it, perhapg, butitit is hard on on thes shrubs. It ought never to be forgotten that grase
or hay sisth one thing indisenasabolo to surs-
The
 mportance. At the eame time grass meed is
axpensive. $1 t$ is not secured and saved in opensive. It is not seerured and amped in
any onsiderable quantity for sale in the any considerabie quantity for sale in the
market in this part ot the ountry
therefore, clearly for the farmer's interest, after he heas bunght and paid a a high price
fr it, to manage so as to so ave and eoono

 greatest waste and consequent lose of seed
and of the oost of roparation and sowng
a loss which amounts to something Hike halt


 plied, were adopted. A grain crop along,
vith or immediately reduces the capacity of the soil to an
zrater than is generally mupp sed.

## Continental corrkspondencer. Parts, June 13.

Dr. Bibard relates his observations on the
growth and development of wheat.
Either Very low temperature, or a frost suceet,
humidity can endanger winter wheant, by humeaying the soil and exposing the roota,
upheal
At the close of
February
when the

 Hower wera dissernible, Many farmers in in
france eraze stock on their winter whati
Hrand
 plant to run only to loaf, May y his not be
owing to te grazing taking placo at too 1 hote
ond owing to the grazing taking place at 200 hate
aperiod and when the rumentany anr has
been formed In In June, when the tempera.
 of valyes. A temperature of $700^{\circ}$ is neees-
nary for the process of fecundation, which

 cundation, owing to a low temperature o oen
not take place, the spikelet retains



 this membrane or case rapidily becomes filled
ind
 opment; shoudrdarouth ingue, , his membraen
is not well filled, it it is thin and shriveled, hence, a secold cause of dieicienen tharvest, to
which a hhird may be added, the abortion of two or more grains at the best of the ear
the latter geuerally poosessing from 21 to 27 spikelets.
Nearly all our cultivated plants seem
leemed to pass throusb


 them the less they appear more depene care tor ther
own natural powerr $p$ resistance


Dear Min May,
spent very agreeably and very hears may buyly in
the cultivation of flowers-that we may ombine the of flowers-that we ma combine the ornamental with the usefur-
Flowers, of all things, are the most in
nocently simple and most superbly complet objects of study. Fly mowers unceasingly ex
pand to heaven their pand to heaven their grateful odors, and
man their cheerful looks; they are patro of human joy, soothers ; of hey are patron sorrow fit emblems of the viecor's striumphs and of
the young bride's blushes. Flowers are in the young brice's bushes. Flowers are in
the volume of nature what the expression
"God is love" is in Revelations. What a "God is love" is in Revelations. What
desolate place would be the world without desolate place would be the world without
flower! It would be a face withouta smile a feast $w$ :thout a welcome

I deem it not an idie task
That spread theiriowrms as as they would ask
If sinn and dew are here;
The pure and common too-
The beanty of refreshing airs,
The
liquid dew.
How much flowers resemble the youn
heart in its bright morning before it $h$ showed the foliage of its siilless years. A
tradition of them tells us they were once like youth, in this: that they loved and
talked, and haid passions like ours.' How often and how fondly the pot revels in th Who has ever hearil the soft, low whisper of
the green leaves and hright flow ars on a ppriug morning, and wid not ferl glathess in flowers hint and foreshow relitions of trim: cenclant delicaly and swethess, and point
to the beantiful and unatetainall, From the Herlen favorite t.a the dainty will flower of
the mounta i , all have an mexpressill
 its head to the breath of night or the rud
storm ; thus the heart latus to bring storin; thus the heart 1 arns to bring
holier offering to the shrine of all good. the delightful employment of the cultivation of Hlowers. Every one may have a few, and
when the taste is once accuired, it will not readily be relinquished. A woman destitute of the love of flowers seems to us a mistake
of nature. The delicate and the beautiful should have symupathy with all in nature spent in the cultivation of tlowers is not wasted in toy our contributedge of our pleature; they
they a
unfold to us the beautiful, and tend to ele. vate the mind
" They in dewy splendor,
woe, and blush without crime.
Although every part of a plant offers an
interesting subject for study, the beauty of the blossom seems, by association, to Flowers are indeed lovely; yet they are destined for a liigher object than a short-
lived admiration, for to them is assigned the important office of producing and nourish-
ing the fruit. Like youthful beauty, they are fading and transicht, and may our youth youth and beauty shall have faded away, their minds may exhibit that fruit which it youth to nurture and mature.
With most people the fuschia is a favorite plant, and when fashioned in the shape of a tree, we renture attractions. The mode of propagating and training is well understood. In the fall take cuttings from the old plants, previous to well-drained, small-sized pots, filled with sand and loam, filling a pot of a sort, and

Sulphate of ammonia is an excellent man-
urial liquid to apply to verbenas and other
fowers, urial liquid to apply to verbenas and other
flowers, giving to the foliage a dark green, luxuriant and healthy appearance. It is
economical, clean and easily applied.
Preeconomical, clean and easily applied. Pre-
pare it in the evening before esing, by dis-
solving one ounce of ammonia in two gallons solving one ounce of ammonia in two gallon
of water. It may be applied with safety

Yours truly,
piekle grefn cucumpers

Take small ones of a uniform size put in a porcelain kettle, cover with cold
water let it heat gradually, and soil five minutes then drain off the water; add good vinegar,
to one gallon of vinegra add one cup of mo-
lasses, one tablespoonful cloves, do. cimaa
 eurthen or stone dish; pour over them the
hot vinegar; cover tight; when cold the are ready for use. I never use any acids,
or cook in brass to make them look green, or cook in brass to make them look green,
considering both inujurious to the health. When we prepare them for the winter, I
wash and scald my barrel to make it per fectly clean, cover the bottom with salt,
vash the cucumbers in plenty of coll water lay in a layer of cuculnbers, sprinkle over
with salt, aund so continue putting in alteroite layers of cucumbers and salt each time
of putting into the larrel; cover with cold water, laying on a flat stone to keep them
unler water; if they are allowed to come to the thp of the brine, thereby belng exposed
o the ar, they will rot. These will keep perfectly for one, two or three years, if de
sired.
When wanted for use changing every six hours; ker $p$ coverect
while freshening, as the light thas a tendency to fale thenin; when the salt is all drawn cut, prepare as gre
cook th. m longer.

## 

Have a pan half full of boiling water
reak into it as mary fresh eggs as will side liy in side withorit touching Legs as will Lhet them
remain until the whites are well set. Use emanin until the whites are well set. Us
perforatel skimmer in taking them up.
to scramble equs.

Put a tea cup of sweet milk in a pan, rub
a teaspoonful of tlour into a tablespoonful of butter. Add this to the milk; salt to taste. Beat half a dozen egss light; stir to the milk;
when the whites are well set, pour over buttered toast. Serve hot.

One cup butter, one cup molasses, one cup sugar, one cup sour or buttermilk, one tea-
spoonful soda dissolved in boiling water, one tablespoonful ginger, one teaspoonful cinnamon, two eggs, about five cups of flour; work Stir butter, sugar, molasses and spice to
gether in a light cream, and set them to slightly warm; beat the eggs; add the milk to the warm mixture, then the eggs, soda,
and lastly the Hour; beat very hard. Half a pound of raisins, cut, will improve this
excellent gingerbread. Flour them well beexcellent gingerbread.
fore putting them in.
> cochineal colorin
> The following is a good recipe
> Cochineal, alum, cream tartar, carb, po Rub the cochineal, alum and crean tartar cold, gradually add carb, potassa and strain measure eight fluid ounces.
to preserve fruit jelligs from mould. Cover the surface one-fourth of an inch
deep with fine pulverized loaf sagar. When thus protected the jellies will keep for years
in!good condition, and free from mouldiness.
boiling cabbage deodorized.
Throw a few pieces of charcoal into the
pot where meats or strong-odored vegetables pot where meats or strong-odored vegetables
are boiling, and there will be less complaint
"up stain," "up stairs."

RICE-GEMS
Soak a cup of cold boiled rice over night Stir into this enough Graham flour to make a rather stiff batter, and bake in gem-pans.
evalish cookire

One cup of raisins chopped, 1 cup of brown
sugar, $\frac{1}{2}$ cup of butter, 1 egg, 2 tablespoons
 namon and nutmeg.
Dear Minnie May
Here are some very good recipes, well
wortliy of your column:
fo starci cuffs and collars.
It will make them look as glossy as when
first lought. Add to the starch a little gum arahic dissolvel in warm water. Iron wet, with a clot', over them. 'To prevent the
iron from sticking, stir a little salt in the
starch whlife hot. starch while hot.
lemon pie.
Two teaspoonfuls of flour and one of butter, rubber together; one cup of sugar, one
egg, one tablespoonful of water, and the egg, and ratedp peel of one lemon. This
jinie and
will malk the inside of one pie. Bake in a wil make the inside of one pie. Bake in a
crust of pastry, either barred across the top
or with plain cover. -

One quart of hops put lightly in the cup, pint of corn browned pared and sliced, one
hops in a small bag, add three quarts of bot boil hops in a small bag, add three quarts of boil
ing water; boil two hours. Strain through $a$ colander, add one cup of white sugar, half
a cup of salt, and water to make five a cup of salt, and water to make five quarts
of the mixture. When lukewarm, add one
pint of the sid pint of the same yeast to ferment it. If that
is not at hand, use potato yeast without
meal or flour, as that meal or flour, as that might sour after
while. Half a cup is enough for a baking large or small. The yeast must be made in
tin or porcelain. Let it stand 24 hours in a
warm room, then boottle or can tightly warm room, then botttle or can tightsly and
keep in a cool cellar. Half the ingredients
will in for keep in a cool cellar. Hy
will do for a small family.

> vorces of spring.

How sonorons the voices of spring, pro-
ceeding from every living thing in the air, ceeding from every living thing in the the air,
and among the reeds of the brook There
is an old bullfrog on the rook of is an old bullfrog on the margin of the
stream, with one leg in the water by way of
t cooler a cooler. How he thrums away on his bass
viol - "thung -thong -thong-thung viol - "thung -thong - thong - thung - pout-
chong !" That little frogess opposite plays
the treble to a charm witho the treble to a charm, without scarce open-weet-gosh ! "-and down she darts into the
water, her dainty little foot terribly mangled by a stone from some cruel boy; but, boy,
this is wrong. And there's the old leader that "green-eyed monster" dressed in in- yel-
low breeches, with a white sash round him. Hear him as he stands up so majestically.
against that reed-"Paddy got droonk-Pddy got droonk-oonk-unk," and down he goes to wet his whistle.
Then futt rs a chanting chorister overtheir sick mates: "Bobolink -bobolink-stingy; yo and see Miss Philesy-Philesy-so sweet-
sweet; she'll die soon-oh sweet; she'll die soon-oh ! dear.", "Pshaw-
pshaw-chuck"" thrills the thrasher." "Miew-
miew-miew" squeaks the cat-bird. ""Who-Whip-poor-will," cries one ;""Katy-did, "Ill
Katy-did," thrills another. "and
see-I will-I will-will-will" sings the see-I will
yellow bird
And so sing they all in their unwritten music, without, perhaps, a discoridant note,
cxcept from some unsoakea bullfrg, who
has lain so long out of the water that his pipes are out of tune. A superannuated old mare, who was quietly nibbing the grass
near by, is so much affected by this concert of comical sounds, that she is forced to
throw up her head and gallop off a dozen or throw up her head and gallop off a dozen or
twenty yards to keep from bursting into a
horse langh. horse langh.

$$
\text { Goderich, July 7th, } 1874 .
$$

ar Minnie May,
They are talking strongly in this town-
ship of starting a Grauge and they waut ship of starting a Grange, and they want
me to join it. What shall I do? Are you a Granger? If so, why so? And if not,
why not? Pardon me for being so inquisiwhy not there are a great many farmers wives and daughters who believe that you
are working for their benefit, and therefore are working for your advice and example.
wish to follour friend,

$$
\begin{aligned}
& \text { Your friend, } \\
& \text { Mrs. Admie H. Mc- }
\end{aligned}
$$

In reply to Mrs. Mc- and other in quirers, , have much pleasure in saying that
I am a Granger. My reasons for being one
are lst-I believe that they are going to do are: 1st-I believe that they are going to do
a great good to the farmers, therr wives and daughavantages of buying what I want a the reduced rates which the Granges have secured, and are now securing for their mem-
bers. 3rd - Because I wish to meet and bers.
know the other farmers' ada, and have social and frendly relation
with them. 4 th- Because my husband is with them. 4th- Because my husband is
Granger, and I wish to go with him to the meetings. 5th-I t prevents the necessity of his keeping secrets from me.
If all these reasons are not
can give you as many more. can give you as many more.
It am satisfied that the Granges will bene.
fit us both socially and financially, and I fit us both socially and financially, and
hope that both. Mrs. Mc-and all gooil hope that both Mrs. Mc-and and gool
and true farmers' wives and daughters will aid in extending their power and usefulness.
If there is ne Grange in your neighborhood If there is ne Grange in your neighborhood
which you can join, obtain the signatures of at least eight farmers besides your husband, and at least three wives or daughters be
sides yourself, and send the signed paper to sides yourself, and send the signed paper to
me and 1 will see that it is attended to.
MINNIE MAr.


Byron, July 30th, 1874.
Dear Uncle Tom,-
I will now fulfil my promiss of writing t to
My foliage plantis growing beautifilly
youre
there are branches all around it, and it is si there are branhes like to get acquainted wit some of your niecesa and nephews. I have a
little brother, and I like him very much, and Ilttle brother, and Ilike him very much, and
I am sure he is no humbug at all.
Good bye.
MIINIE MAY JAvis.

Willie A. Ru' herford senls answers to puz
zles, and wants to know if his selections are Zles, and wants to know if his selections are
going in this month, as they did n.t appeaa
last. As a general thing, if they are not rinted the month they are ent, it is not like
Iy they will be at all. Of curse I do not puu
oall the pieces which are sent to me; som because they are too well known: some be aus
Idon't like them, and sone because, althou; very good, are not good enough. Don't pe
diecouraged though, send on some more, and discouraged, though; send on some
you m y suit my ideas nex: time.
 and In my first my secoad sat; my M. thir
and fouth I ate.
26. My first is in Tom, but not in Mary, My first is in Tom, but not in Mary,
My seond is in thorn, but not
berry;
 Mv fifth is in sp ech, but not in talk,
My y isth in in stone, but not tin rock.
My whole is the name of a river.

Minnie E. Turner says
 amater
am alone." Never mind, Minnie; come in
our family and you will have plenty to our family and
young relations.

## 


263. My it 7, omposed young horse. 1 My whole is what the retrument.
ought to be looking out fors. 264. Square
A piece of furn
a part in music.

265 . Square word. Chas. Withebspoon. A part of the human body; to go in; to make A part of the human body; to go in; to make
amends; money paid for houses: a lock of hair.
JACOB M. SHERK. Maple Grove, June 13th, 187. Dear Uncle Tom,
 ber I hope Minnie May has sewed it up for
youb before this.
Oh, by the way, I Oh, by the way, I quite agree with Cousin
Slam in thinking that Mingie May is Mrs.
Uncle Tom. Wh. .t a lot of nephews and
 is the mater with cose
wititen tor 4 lone time.


Dear Uncle Tom,-
Most of the seds you so kindly sent me are
doing well.
The vegetables are all looking very well. I huilt a c cairn, or my and of earth and stones in our arden this spring. I planted
a geranium, apetunia and some dew plant on
the top of it, and moss and dew plant all round the sides, in the saces be
stones. I named it "Uncle Tom."
My little four-year-old brother says some
funny things sometimes. The other night he



 litle son. I hope he is well, and trat he will
be a credit to his father. Yours trull, Lalies.
geographical putzale. 266 One Sunday morning as I was comfort
ably seated reading Irving's History of (the ably seated reading Irving s History of (the
capital of Ohio), (a city of Maryland), who
never gives me a moment's peace, exclaimed never gives me a moment's peace, exclaimed
My (island off the coast of Maine) it is high time you dressed for church. The morning
was (a state of South America), and 1 dread ed to go out, but my brother, who is as cun
ning as a (small island sooth of Maine), re
 new (town in Scotland to day). Thus re-
minded, I was soon ready, and we set out,
( a cape east of Massachusetts) throwing a a cape east of Massachusetts) throwing a
light (mountain in Oregon) over my bonnet
to protect it from the (mountains in o protect it from the (mountains in south
Africa). My brother declared that I had
never looked brettier never looked prettier, but this I knew was
(a cape west of U. S.). When we reached
he church we he church, we found the Rev. (town in Il
linois) in the pulpit. He is not a favorite o mine, but some people think him a very
(city in the north of Russia). The text was from one of the epistles of (the capital of
(Iinnesota). The preacher exhorted us to Minnesota). The preacher exhorted us to
follow the exanple of (a bay east of Brazil)
and wage war upon them till they were all and wage war apon them til sea were and
(a sea in Palestine), and we sace across the
(river connecting Great Salt and Utah Lakes). (river connecting Great Salt and tah Lakes)
The sermon was so long that it seemed to
me it must have covered (a city of France) but the singing was really (a lake betwee Out we heard (a bay east of Michigan), and
I reme
I remarked that we should soon see (a cape west of Oregon), to which my brother
replied (a river of Italy), the (island west of Scotland) is too nearly (a cape south or Ireland) for that On arriving at home, wo of Ohio) already at dinner, but I had very
of little appetite. After taking a little (island
west of Africa), I fert somewhat refreshed and, with the life of (a city in Florida, writ
ten by (a sea north of Russia), my room and made a perfect (island south of
South America) of myself during the rest of my room
South An
the day.

Hattie Haviland.
how is it made;
During one of the earlier visits of the
Royal family to Balmoral, Prince Albert, dressed in a very simple manner, was crossing one of the scotch aker in a steamer, the management of the vessel, and among many other things the cooking. Approach-
ing the "galley"where a brawny Highlander
wa was attending to the culinary matters, he
was attracted by the savory odors of a compound known by Scotchman as "holge
podge," which the Highlander was preparing,
"Wh podge," which the Highlander was preparing.
""What is that? asked the Prince, who
was not known to the cook. "Hodge-

podge, sir," was the reply. "How is it
made," was the next question. "Why,
there's matton intilt, and turnips intil't, and
.", "Ye ", theres mutton int and -", "Yes yes,", said the
carrots intil't, and
Prince who had not learned that "intil't" meant '"in it," expressed by the contraction "intil't," "but what is intil't'?" "Why,
there's mutton intil't and turnips intil't and there's mutton intil't and turnips intil't and
carrots intilt and
what is "intil't's." The man looked at ' him, carrots '"intili't?"' The man looked at him,
what is seeing that the Prince was serious, he
and and seeing that the Prince was serious,
replied, "There is mutton intitt and
turnips intil't and-" "Yes certainly, I turnips, intil't and-" "Yes certainly,
know," ruged the inquirer; " "but whit is
sity 'intil't-intil't'" "A hy, yelled the High-
lander, brandishing his big spon, 'sam I na
telli, ye what's intil't' Theres mutton lander, brandshing hisi't? There's mutton
tellin' ye what's intile
intil't, and-" Here the interview. was intil't, and-" Here the interview was
brought to a close by one of the Prince's suite, who, fortunately passing, stepped in
to explain matters to the Highlander, who opened his mouth with stupid wonder at t'te phould not at once have known that it was
the Prince. the Prince.

$$
\text { May 7, } 1874 .
$$

Dear Uncle Tom, ,
I have been busy
since sunrise, for
early this morning I said to myself, I an
going to write to Uncle Tom to-day, and I've going to write to Uncle Tom to-day, and I've
hurried ever since. Now it's all done, an
here I be. Unele best of all good uncles ! I Thope it it ie no
too late to vote; $I$ want to vote for Nina
Yy brother says he will yote for Kitty My brother says he will vote for Kitty. H
says he thinks it hardly fair to speak in
silighting a manner of bia brothers.
He is slighting a manner of big brothers. He
an awful torment, but he has gone awa now. He is going, to learn to talk French
and, when he comes back, I suppose he will and, when he comes back, I suppose he will
have grown very dignified, and wear moustache. Oh! 1 Ifrgot to ask you do yo
hke weddings?
We had lots here this spring. Almost everybody got married
All the widows and widowers, old maids and
bachelors, and some of them real old. It bachelors, and some of them real old.
was jolly to see them trying to look so aas joly to see them trying to awfuly sentimental. I hope that you go some wedding cake. It was too bad if you
didn't; but never mind, Uncle, the next ime there is a wedding in the family yo
shall have a piece of the cake, and Minnie and Nina, and Cora, and all the rest of the
cousins. Please tell me if one of the family ousins. Please tell me if one of the fam
should marry a king. Don't that give me ight to a title? That's a connundrum.
We have got some house plants, and
among them is one very large plant that we
call Indian shot, The leaves of it are like call Indian shot. The leaves of it are like
the leaves of field corn. I have been told
that that was not the that that was not the real name of it. Could
you set me right? Mother says it is time to get dinuer, and I suppose you are not sorry,
gs you get rid of my chatter. syou get rid of my chatter. Love to all,

ANSWERS TO JULY PUZZLES.
 $\begin{array}{ccc}\text { OPA } & \text { A } \\ \text { M } \\ \text { E A } & \text { L } & \text { L } \\ \text { When } & \text { we }\end{array}$
ask three questions : Who was the favorite of the family? You
ve not told who was hunored wita the most What are you a-going to name your boy?-
If you have not selected, I think it would be Wo more than right to cunsult your family.
Would you like a p ptent ppocket lock for your pocket; if so, I will send you one.
South Granby, P. Q.

$$
\text { A WARNING To } 10 \mathrm{VERS} \text {. }
$$ "Metildy, you are the most good for nothihn',

trifinn, owdacious, contrary piece that ever
ived,"
 Couldn-t help yourresfif 't." That's a protty
way to talk,! Ain't he a nice young mau ?" "Yes'm."
"Got money?"
"Yes'm."
"And good kinsf $u l k s$ ?
"Yes'm."
"Yesm."
"And loves you to distraction?"
" Yea'm." the name $o^{\text {' common sense, what }}$



 arder I cried the harder he oreaked, till all
a sudden it came to met that it wannt wothin
but his gallowes, and then Ibuto out laughin
hit to kill myself, right in his face. And the it to kill myself, right in his face. And then
he jumped up and run out, of tho house, mad
ha fur, and he aint comin'
asork no more. Boo:
 ool of yourself, but your cake ain't all doug
 ohnny, tell him how it hapened 'plogize to
im, and knit him ar real nice pair of yarn gal-
owse, jeat like your pas,
 "So you shall, honey hell vally trem a
heap more than if k nit them.
Tildy; it'll be all right, you mind if it won upt."

The other day an aged couple drove into an
Ind ana city just as an undertaking firm was noving into an old church, which had been
purchased for a shop. The old gentleman
 around to his half and gasped :" "Sary, by
golly, its the cholera; let s git!" and they got. "To Memory Dgak."-Enthusiastic Criok-
ter -"Ah, last geason was a good one I I'd both eyes blacked in one matcc, and two fingers
mambed in the return match the same week!
But give me 1871 over again. I I
got the ball on my foreh:ad at short leg,' and was sensee.
less for three-quarters of an hour !- ? And
ever since $]$
$y$ A man who iell into a vat of boiling lard
and was taken out alive, zays that tit was
not an unpleasant sensation after the first
momen moment, but he thought what a mightly
queer shaped dough-nut he would make.
CANADIAN CIFY.
A man in stopping his paper wrote:-"II
think folks doant ort to spend thare munny on pafers. My father never did, an evry
boddy sed he was the smartest man in the boduy sed he was the smartest man ing the
kountree, and has got the integnentist
family of boys that ever dugg taters.
"I say, Mr. Johnson, did you hear 'bout
de catalespy dat befel Phillips "Of "Of course Ididn't; what was it?"' "You ste,
the doctor ordered a blister on her chit; the doctor ordered a
well as she hadn't got no chest no how, she
put it on de bandbox, and it has drawed her put it on de bandbox, and it has drawed her
new pink bonnet out ob shape, and spile um entirely.
"Remember who you are talking to, sir,
said an indignant parent to his fractious said an indigant paren
son; "I am your father, sir." ". "Well,
whose to batame for whose to blame for that?" said young im
pertinence. "Tain't me."

TOCK \＆DAIRY Look to the lambs， Perhaps not one in ten of those who keep
年







 ${ }^{\text {dip }}$ The the silk $i$






官胃
 ght legs．



 poisoning
thory，
prousibe
prase wa
 dropped
had bee
Rurol．
-
how тнет маке
－cur－BD
Fortunate 1s hat househoil which haz dairy a a a part of it testablistment，eqpecially butter are the most dificolt articies to pro
duce both pure and good for the dairy suppl of the family，event though there may be ever opportunity of getting produce and dome－made
Iti it really seldom that we eat butter as sweet
 were paid to the simplest means；but then it
is imperative to une all theee means，and few will beieieve that all are necessiry；so for con
 it becomes astore for many thinss wich oug soon detetet Act A close sme．l． 1 appea， ．s where should be fresh as the morring air，an equal quantity of cream risisig from the milk，and to quantity of cerean uantiti on both ；both being
confer best turand from any contamination
 hanging or placed in a dairy for coonnees aitt if
season－at the risk and with the reality of season－at the dirk and wiwt the reand
rendering the dairy product less pure and good than it night be．
 out it is always better when ma te fresh frou
bream befere cream before et comes at all sour．One ounc
of sulphate should
be milk riskimed into it．The tin should hold when full three gallons of cream，which shoult will do much to keep it in gool condition．The larye dairy where a small proportion ouly

 was akimed the enik in this case was mod
to the new milk or ream－makig，not more
than one pound of butter per cow per week

THE FARMER＇S ADVOCATE－
August， 1874

##  Milk skimmed at these eshort intervals will be as syevet and goof or weaning calves for us us










 yaluable plan to seald the cream as deseribed，
or even the least experienced in making butt $r$



 utter is to be made．

 will deseribe the bilan
best but bute wel
have before alluded．
churn，the dairiryomman（who must have a
coil hand）in a cool place，gently suuezeed or


 it ores the surface of the satt sumpor int ves the tates desired was added，and it was rol
printed in halt－p pund weights for use．
 in thiis harge dairy．It may，seem a lithle less
trouble tow wash，and washl，anil wash it it and so




The disease is to be feared am no sto cows Sire four yearat ot that are are than ordinary

 circulating through the eystem of the call
The drin
Thun the the onther syst and and reat reaction occurs．The parts of th












up．If there is a f iw of milk it shoold be be
drawn from the
this fever previousidy，or her her sympow hams has cause









 quiet as
ever few
penasi）

From the ontset we have disconraged the
manofacture and sale of the so called
ces sue sutter＂as a frad upon the consumer an a wel
the olarirymn．In no sense can the stuff ba
tailed called butter，and we are glad to see tha
at last the sense of the dealers in butter is
 or whatever it may bee churned in in sour milk
and packed and put tupon the marketas butter
In


 effects the entire market by an accumu＇ation
of stock．
Therefore ef atotory－men dairymen，

 ect right to do，but whin it enters ane paxe to





If all that is to be aimed at is obsecuiously
to cony the herd of fome dead breeder who earned a areputation，it woult s，em more
rational to adopt the dead man＇s method rather than to serambe for what are left o

 succeeded，and the monlls they left behin
are deservedly much prized．
Buis it stovild b






 tendence of the recent sales is to encouraye

 ane sa ircely made butcher＇s prices．
 Porgoten that the result of＂Mpre＂orreading
hang been that some most valuable fanilies sars
tep


 There is a tendency in much that is said an written abput Short horns to obscure the faci
that no breed wheu really in a n itural condi
 of late years have bred wilh greater intelit
gence than their Eoglish brethren／have neve

 and dearer competitrod buy them at at remurnar
tive prices to use them to produce beef．Their

 in＂pura＂herds．The English press should
encourae the English farmer to do dikewise

 $\stackrel{\text { saiting cattle }}{ }$

 What the animill will lick clew．en，Give the salt
after the animals have filled themselves in the

 sters are salted but wice a week，ni more
thould be biven than if sited three times， ince salt，in large doses is cathartic．
It ti the thught that cattele will eat rat

 frese have been aceunulating the organic ard



 urious，fed in occasional adese，pad there is in on
oubt but this is the case if enough is
given
 out the ra
stock miz
require．

reating stock
 arad hat earse onvart－towards．per fection．
will nint any to perfection，for luate will not be be
a tain
 of stuay to to beed as near at may bit to a fixed
standard of excellence not only in color and



 speeial purpose
If the ruprrie
and




 digense of cattie．
The neessity of guarding our r live stock
against predisposition to tisease，and othe
to Contagious nature of the foot－ant－mouth
disease，are shown in an ateate on the sub－ ject in the Imperial Parliament．The Earl
Kimberley sail there was a great differ cne of opinion as to whether compulsory
Suughter was likely to stamp out the dis． ease，but there was a concurrence of opiniol that to be of any se the regulation must be stringent．The experience of other conn
tries showed that partial meassures were of Mo use．As regardel the foot－and－mouth
lisease，thic committee was of opinion that we hall no means of stamping it out withoit the alloption of
than well would oi such a disease．
Lord Dumany ． L．ord Dumany said he had heard from good
nt hority that a anumber of cattle which had lett Iredinun in an healthy state wete found to e disensen when they arrived in Dorset．
hire．Thlis was atrivuter to the treatment they had sustainell on the jonrney sulti－
dient attention was not paid tole cleansing of cattle trucks，and the sul．
animals with food and water．

The Apiaw.

| tilat ber swindler again. By A. C. Attrool, Ediior. |
| :---: |
| aves and fools are not all dead yet." |
|  |
| vould give up their busim |
| y for the support |
|  |
| ccess to knowledge, 1 have very little sym- |
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|  |
| for inf |
| g that will help him to steal a march on |
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| il |
| o |
| p |
| not kinow |
| the heighth of the arms of fame |
| in a day what has taken others |
|  |
|  |
| this matter, 1 might let it go with only |
|  |
|  |
| drel has been canvassing the courtry | the bee man from London; he has canvassed

 Inool-looking fellow, a remark that no person drives a tine rig, which is something $I$ cal hardy atort; he moves Inucky a aoout fro
place to place, never calls on leading bee
 for five dollars that will enalle the bee bees of all theirir stores, and for thirty cents he can procure some compound or artitic
food enough to keep each stock all winter.
 taming bees-a sort of lee charm, soone-
thing, 1 suppose, like that of Professor Every time that man makes a sale some

 lo not want my name usel as a a cat's-paw to
swindle others. the appenension and d conv i ition of this very
sconuntrel, Mut still he is at large. From thic

 place
I particularly request any person that cant
mive me the e east tintormation as to his give me the least information as to hiss Thereanouts,
shall also feel olligel to the press to pass

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